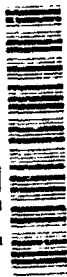


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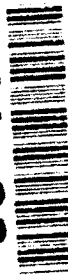
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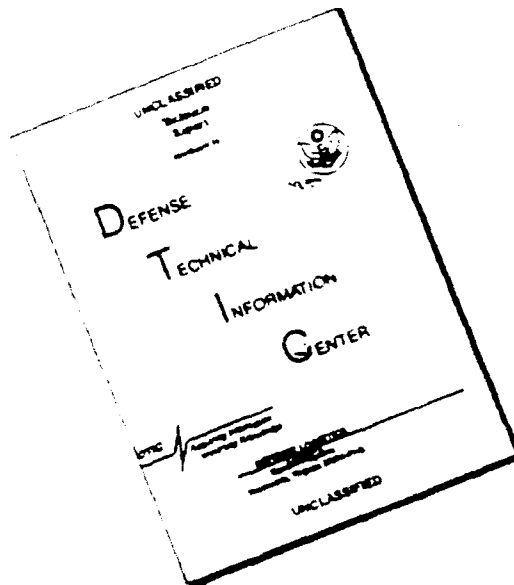
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APRIL 1993

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Materiel Command, DCS/Science Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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PART 1

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PAGE 1

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AALEM Associates	LAST NAME					
APA Outlets Inc	Lebecki	A.		93-NE-213		CRAIG
	Khan	A. Asif		93-NE-176		POMRENKE
				93-NE-198	A	WITT
ASTA Engineering Incorporated	Sun, Ph.D.	del		93-NE-352		POMRENKE
AdTech System Research Inc.	Soni	Jon		93-NA-151		JONES
Advanced Composites Laboratory	Ting	Joseph		93-NC-266		LEE
Advanced Systems Laboratory	Jayard	David		93-NA-143		JONES
Advanced Technology Materials Inc.	Miller	John		93-NM-173		JACOBS
	Steinbeck	John		93-NE-201		WITT
	Fischer	Michael		93-NE-250	A	WEINSTOCK
	Yoo	Woo Sik		93-NE-205		WITT
	Bridgman	Charles		93-NE-202		WITT
Air Force Institute of Technology	Sutar	Bruce		93-XO-006	A	BOLAND
	Haggers	Mary Ann		93-XO-007	A	BOLAND
	Majes	Mary Ann		93-NM-152	A	SJOGREN
Air Force Johnsons Lab				93-NA-146	A	SAKELL
				93-NA-153	A	MCMICHAEL
				93-NA-168	A	SAKELL
				93-XP-002	A	YUEN
Air Force Wright Aeronautical Labs	Kissel	Roger		93-NA-058	A	SAKELL
Alabama A&M University	Venkateswarlu	Putha		93-NC-240		LEE
				93-NE-290		CRAIG
Albert Einstein College of Medicine	Schwartz	Steven		93-NC-096		BURGGRAB
Allied Signal Inc	Goldberg	Inda		93-NC-201		HEDBERG
American INC Corporation	Lin	Ching-Fang		93-NM-158		JACOBS
Iseldyn Corporation	Knebaugh	Scott		93-NE-233		WITT
Arizona State University	Cochran	Douglas		93-NM-263		SJOGREN
	Akouris	Jemtris		93-NA-166		JONES
	Maracas	George		93-NE-298		POMRENKE
	Mayer	James		93-NE-354	A	WITT
	Rodriguez	Armando		93-NM-294		JACOBS
	Saric	William		93-NA-137		MCMICHAEL
Armstrong Laboratory				93-NI-015	A	BOLAND
				93-NI-016	A	BOLAND
				93-NI-017	A	BOLAND
				93-NI-013	A	BOLAND
				93-NI-014	A	CAVENDER
				93-NC-174		LEE
				93-NE-175		POMRENKE
				93-NE-194		WITT
				93-NC-175		BERMAN
				93-NA-193		JONES
				93-NA-076		LEWIS
				93-NM-177		JACOBS
				93-NM-166	A	JACOBS
				93-NC-154		LEE
				93-NC-200		HEDBERG
				93-NA-130	A	JONES
Army Research Office	Chandrasekhar	P.				
Ashwin Vinas	Jiu	Chang				
Astralux	DiNetta	Louis				
Astro Power Division/Astrosystems, Inc.	Graham	Kenneth				
Atlantic Research Corp	Raju	P K				
Auburn University	Tedesco	Joseph				
	Vos	David				
Aurora Flight Sciences Corp	Barron	Roger				
Barron Associates, INC	Schwarzel	Robert				
Battelle Columbus Labs	Almsworth	Calvin				
Battelle Pacific Northwest Laboratories	Panahandeh	M				
Berkely Applied Science & Engr.						

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Boeing Co	Lunman	Thomas		93-NC-176	A	ERSTFELD
Boston University	Bar-faa	Isneer		93-NC-178		BURGGRAP
	Hughes	W. Jeffrey		93-NL-194		RADOSKI
	Lee	Min-Chang	V	93-NL-153		STOBIE
Boeing Corp. of America	Jayannathan	G.		93-NE-204		WITT
Brown University	Cupuis	Paul		93-NM-153	A	JACOBS
				93-NM-157	A	JACOBS
	Gottlieb	David		93-NM-253		JACOBS
	Horse	F.	F	93-NC-206		PECHENIK
	Hutt	Theodore	F	93-NE-341		SCHLOSSER
	Sheldon	Steven	Z	93-NC-233		PECHENIK
	Chu	Lian	V	93-NC-238		PECHENIK
	Chen	Li-Chuan		93-NA-152		JONES
3C Technologies, Incorporated	Gibson	Derrick	H	93-NE-220	A	POMRENKE
3M Microfab Inc	Jay	Warren		93-NA-131	A	JONES
CSA Engineering, Inc.	Jay	John	D	93-NM-171		JACOBS
CSI, Inc	Bridges	William		93-NE-287		CRAIG
California Institute of Technology	Joyia	John	C	93-NM-247		JACOBS
	Helwegner	Jon	V	93-NL-091	A	DICKINSON
	Knauss	W	G	93-NA-165		JONES
	Marder	Seth	R	93-NC-114	A	LEE
				93-NC-258	A	LEE
	McKay	Vincent		93-NE-271		KELLEY
	Okumura	Mitnio		93-NC-076	A	BERMAN
	Lowell	Ahmed		93-NC-141		BERMAN
California State University	Sanders	Jrenda	H	93-NL-113		KOZUMBO
Calspan-UJ Research Center	Holden	Alke		93-NA-145	A	SAKELL
Carnegie-Mellon University	Kauday	Michael	J	93-NC-234		PECHENIK
	Skoronski	Marek		93-NE-319		POMRENKE
	Sycara	Katia	P	93-NM-230		WAKSMAN
	Neuer	A.	H	93-NC-149		PECHENIK
Case Western Reserve University	Saada	Adel	S	93-NA-162		LEWIS
	Gaylayan	Alper	K	93-NM-152	A	JACOBS
Charles River Analytics Inc	Galati	Farjoun		93-NC-232		PECHENIK
City College - CUNY	Auslander	Louis		93-NM-207		NACHMAN
City Univ of New York Graduate School	Alfano	Robert	Z	93-NE-347		SCHLOSSER
City University of New York	Atosta	Charles	C	93-NE-322		WEINSTOCK
Clark University	Adams	Darren	D	93-NM-220		GLASSMAN
Cleason University				93-NM-251		GLASSMAN
Colony Research Corp	Hill	Joe	P	93-NM-173		JACOBS
Colorado State University	Duttons	Greg	L	93-NA-194		LEWIS
	Durnford	Deanna		93-NA-197		LEWIS
	Macal	Gary	F	93-NC-275	D	BURGGRAP
	Miklos	Pericles	A	93-NE-295		CRAIG
	Robinson	Gary	V	93-NE-298		POMRENKE
	Yang	Raymond J.	H	93-NL-127		KOZUMBO
	Eleuthal	Kenneth	H	93-NC-255		MEDBERG
Columbia University	Flynn	George		93-NC-151		BERMAN

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Competitive Bidding Conductus, Inc.	Martin	Leonard			93-NL-170		COLLINS
	Osgood, Jr	Richard	M		93-NE-346		SCHLOSSER
	Spiegel	Edward	A		93-NL-181		RADOSKI
	Turro	Nicholas	J		93-NC-082	A	HEDBERG
Cornell University	Wang	Wen	I		93-NE-321		POMRENKE
	Longo, Jr	Joseph	T		93-NI-012	A	REPOS
	Martons	Jon			93-NE-167		WEINSTOCK
	Pance	Aleksandar			93-NE-252	A	WEINSTOCK
Crystal Systems, Inc	Cooper	Barbara	H		93-NE-251	A	WEINSTOCK
	Disalvo	Francis	J		93-NC-230		ERSTFELD
	Eastman	Lester	F		93-NE-241	A	WEINSTOCK
					93-NE-285		CRAIG
Cryopower Associates	Holmes	Phillip	J		93-NE-335		SCHLOSSER
	Lion	Leonard	W		93-NM-273		NACHMAN
	MacDonald	Noel	C		93-NA-080		LEWIS
	Nation	John	A		93-NE-356		WITT
Crystal Systems, Inc	Pope	Stephen	S		93-NE-275		BARKER
	Sass	Stephen	S		93-NA-112	A	TISHKOFF
	Shalloway	David	L		93-NC-105	A	ROSENSTEIN
	Shuler	Michael	L		93-NM-194		GLASSMAN
Crystal Systems, Inc	Spitsbergen	Jan	S		93-NL-128		KOZUMBO
	Steenhuis	Tamara	L		93-NL-112		KOZUMBO
	Liquier	Henry	L		93-NA-183		LEWIS
	Khattak	Chandra	P		93-NE-253	A	WEINSTOCK
Crystal Systems, Inc	Landstrass	Maurice	I		93-NE-213	A	CRAIG
					93-NE-196		WITT
					93-NE-208		WITT
					93-NE-174	A	CRAIG
Currie Engineering Consultants (CEC)	Currie	Malcolm	G		93-NM-170		JACOBS
	Dvorak	Rudolf			93-NA-128	A	FANT
	Hughes	Russell	P		93-NC-219		HEDBERG
	Sonnerup	Jengt J.O.	U		93-NL-193		RADOSKI
Defense Group, INC	Asato	Shanie J.			93-NM-166		JACOBS
	Gonzales	Bobba	L		93-XP-001	A	OVENS
	Pittner	Richard	E		93-NL-188	A	STOBIE
	Desert Research Institute	Arnett	Kenneth	A			LEE
Display Tech, Inc	Mandschy	Mark			93-NC-113		LEE
	Chang	Don-Chin	S		93-WC-125		JACOBS
	Wang	Albert	P		93-NM-208		JONES
	Behringer	Robert	A		93-NA-093		LEWIS
Drexel University	Bejan	Adrian			93-NA-218		FANT
	Coury	Louis	M		93-NA-088		ERSTFELD
	Dowell	Earl	A		93-NC-208	A	JONES
	Medina	Miguel			93-NA-138		LEWIS
Duke University	Thomas	John	E		93-NA-098		KOZUMBO
	Virgin	Lawrence	M		93-NL-161		SCHLOSSER
	Vitter	Jeffery	S		93-NE-343	A	WU
					93-NA-125		SUDDARTH

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Dynacs Engineering Company, INC	Christian	Paul	M	93-WM-167		JACOBS
	Chan	William	S	93-NE-191		POMRENKE
Electro-Optek Corporation	Chou	Y.	C	93-NE-195		WITT
	Jines	Eugene	L	93-NE-171		WEINSTOCK
Emcore Corporation	Huang	C.	F	93-NE-190		POMRENKE
	Liu	Heng	S	93-NE-203		WITT
Essex Corporation	Kennedy	Robert		93-NL-092	A	COLLINS
European Office of Aerospace R&D	Hackett	Kirk		93-NE-157		BARKER
Excel Superconductor, Inc	Ganapathi	L		93-NE-211		WITT
Fiber and Sensor Technologies	Miller	Mark	S	93-NA-150	A	JONES
Florida A&M University	Krothapalli	Anjaneyulu		93-NA-170		MCNICHAE
	Louranco	Luiz	M	93-NA-235		FANT
Florida International University	Hardy	Kenneth	A	93-NE-269		KELLEY
	Levy	Cesar		93-NA-194		JONES
Florida State University	Hollander	Myles		93-WM-203		SJOGREN
	Pfeffer	Richard	L	93-NL-150		STOBIE
Fluorocore INC	Baum	Kurt		93-NC-261		HEDBERG
	Tayebati	Parviz		93-NC-124	A	LEE
Coster-Miller Inc	Nogues	Jean-Luc		93-NC-267	A	LEE
Sel-Tech, Inc.	Taylor	Peter	R	93-NC-152		BURGGRAF
General Atomics	Honein	Tanios		93-NA-149		JONES
General Science & Technology Inc.	Singpurwalla	Nozer	D	93-WM-223		SJOGREN
George Washington University	Atluri	Satya	M	93-NA-110	A	JONES
Georgia Institute of Tech	Glezer	Art		93-NA-100		MCNICHAE
	Kohl	Paul	A	93-NE-329		WEINSTOCK
Georgia Tech Research Corporation	Komerath	Narayanan	M	93-NA-084	A	FANT
	Atluri	Satya	M	93-NA-063	A	JONES
Gordon Research Conferences Inc	Gole	James	L	93-NC-199	A	PERAM
	Metiu	Horia		93-NC-184	D	ERSTFELD
Gumbs Associates, Inc	Swailek	James	L	93-NC-194	D	PECHENIK
	Jang	Guang-dai		93-NC-268	A	LEE
HL Vacuum & Semiconductor Corp	Kulkarni	Gururaj	V	93-NC-122		LEE
	Lu	Hamilton		93-NE-224		POMRENKE
Harvard University	Tinkne	Michael		93-NE-234		WITT
	Kushawaha	Vikram	S	93-NE-259	A	SMITH
IBM Almaden Research Center	Leach	Ronald	L	93-NE-334		SCHLOSSBER
	Raphael	Louise	A	93-NE-336		SCHLOSSBER
IBM Thomas J. Watson Research Center	Torrance	Jerry	A	93-WM-279		SUDDARTH
	Northrop	Gregory	A	93-WM-228		JACOBS
Illinois Institute of Technology	Schwartz	Klaus	M	93-NE-239	A	WEINSTOCK
	Guralnick	Sidney	A	93-NA-163	A	MCNICHAE
Implant Sciences Corporation	Mandal	Braja	K	93-NE-313		WEINSTOCK
	Ucci	Donald	R	93-NC-183		LEE
Indiana University/Bryan Hall	Williams	David	R	93-WM-278		SJOGREN
	Bunker	S.	N	93-NA-238		FANT
	Montgomery	Lawrence	K	93-NE-231		WITT
				93-NC-209		LEE

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Innovative Technology Enterprise Integrated Systems, Inc. Interface Foundation of North America Iowa State Univ of Science and Tech	Krunasiri	Gagan		93-NE-222		POMRENKE
	Kosut	Robert	L	93-NM-160		JACOBS
	Tarter	Michael		93-NM-204		SJOGREN
	Athreya	K.	A	93-NM-143		SJOGREN
Iowa State University	Rose	James	H	93-NA-208		JONES
	Coats	Joel	R	93-NL-140		KOZUMBO
	Davidson	Jennifer	L	93-NM-269		SUDDARTH
	Gordon	Mark	S	93-NC-264		BURGGRAF
Jet Process Corporation	Rose	James	H	93-NE-360	A	WEINSTOCK
	Halpern	Bret	L	93-NC-123		LEE
				93-NE-180		POMRENKE
				93-NA-167		BIRKAN
Jet Propulsion Laboratory	Bellan	Josette	R	93-NC-185	A	LEE
	Harder	Seth		93-NC-186	A	LEE
				93-NC-220		BERMAN
				93-NL-177		RADOSKI
Johns Hopkins University	Uagdigian	Paul	J	93-NA-078		LEWIS
	Henry	Richard	C	93-NL-093		RADOSKI
	Michalowski	Radoslaw	M	93-NL-166		RADOSKI
	Rust	David	E	93-NM-237		SUDDARTH
CALFA Technology, Inc Kansas State University	Zmarico	Amy		93-NC-160		LEE
	Au-Yaung	Vincent	S	93-NA-189		JONES
	Rama	Alexander	W	93-NC-108	A	BERMAN
	Setser	D.	W	93-NC-213		BERMAN
Copin Corporation Laser Photonics Technology Inc	Shastry	Shambhu	K	93-NE-200		WITT
	Burzynski	Byzard		93-NC-164		LEE
	Casstevens	Martin		93-NE-173	A	CRAIG
	Zhang	Yue		93-NC-121		LEE
Laser-Matter Interactions Labs	Mukherjee	Anadi		93-NC-156		LEE
				93-NC-157		LEE
				93-NM-184		GLASSMAN
				93-NA-180		LEWIS
Lawrence Berkeley Laboratory Lehigh University	Head-Gordon	Teresa	L	93-NA-073		LEWIS
	Fang	Hsai-Yang	C	93-NA-181		LEWIS
	Hong	Daniel	C	93-NE-276		POMRENKE
				93-NA-089	A	FANT
Ligant Edge Lightwell, Inc	Huang	James	P	93-NA-127	A	JONES
	Smith	C R		93-NA-190		JONES
	Walker	J David		93-NE-235		WITT
	Wei	Robert	H	93-NM-193		JACOBS
Linares Management Assoc, Inc. (LMAINC) Lanfield Research Institute Los Alamos Nat'l Lab--Appl Theor Phys Dv	Kie	Steven	C	93-NE-193		WITT
	Linares	Robert	R	93-NC-171		BARKER
	Davis	Paul	A	93-NL-175		BERMAN
	Dick	Jerry	J	93-NE-357		TANGHEI
Loyola University MIT -- Lincoln Lab QAR Technologies, Inc	Yost	William	J	93-NE-217		SCHLOSSER
	Ehrlich	Daniel	L	93-NA-209		WEINSTOCK
	Paugh	Robert	W	93-NA-132	A	JONES
	Quackin	Kent	J			JONES
MSMVC Inc.	Sullivan	drian				

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NASA - Langley Research Center	McMaster	L. R.		93-NL-084	A	STOBIE
WZ Applied Technologies	Norris	Peter	E	93-NE-230	A	WITT
National Academy of Sciences	Glusenthal	Marjory	S	93-NM-156	A	HOLLAND
	Huey	Beverly		93-NL-100	A	TANGNEY
	Lavery	John		93-NM-155	A	GLASSMAN
	Wolf	Lorraine		93-NL-152	A	DICKINSON
National Inst. of Standards & Technology	Manley	Howard J M		93-NA-174		LEWIS
National Research Council	Marquies	Timothy	S	93-NL-106	A	TANGNEY
National Science Foundation	Weill	Daniel		93-NL-136	A	DICKINSON
	Yong	Deborah		93-NA-157	A	MCMICHAEL
Naval Surface Weapons Ctr/White Oak Lab	Sandusky	H.	W	93-NC-140		BERMAN
Navsys Corporation	Oiggelen	Frank van		93-NM-165		JACOBS
Astrologic, Inc	Johnson	James	R	93-NE-221		POMRENKE
New Jersey Institute of Technology	Hsu	C T Thomas		93-NA-140		JONES
New Mexico Institute of Mining and Tech	Oxley	Jeanie	C	93-NC-126		BERMAN
	Williams	Pharris	E	93-NC-259		BERMAN
New Mexico State University	Hearn	Thomas	M	93-NL-147	A	DICKINSON
New York University	Avellaneda	Marco	G	93-NA-173		LEWIS
	Snodgrass	Joan		93-NL-123		TANGNEY
				93-NL-176		TANGNEY
North Carolina Central University	Dutta	J	M	93-NL-103		STOBIE
North Carolina State University	LeBlanc	Gerald	A	93-NL-113		KOZUMBO
	McRee	D Scott		93-NA-225		SAKELL
North Dakota State University	Bieraggen	Gordon	P	93-NA-195		JONES
	Glomer	Jacob	S	93-NA-143		WU
Northeastern University	Bryant	David	J	93-NL-101		COLLINS
	Rappaport	Carey	M	93-NM-280		JACOBS
	Silevitch	Michael	B	93-NM-226		NACHMAN
	Skavenski	Alexander	A	93-NL-105		HADDAD
Northern Illinois University	Spangler	Charles	W	93-NC-255		LEE
Northeastern University	Acnenbach	Jan	D	93-NA-062	A	JONES
	Kath	William	L	93-NM-236		NACHMAN
	Keer	Leon	M	93-NA-096		JONES
				93-NA-164		JONES
	Marks	Tobin	J	93-NC-134		LEE
				93-NC-145		LEE
Matkowsky	Matkowsky	B.	J	93-NM-149		NACHMAN
Ratner	Ratner	Mark	A	93-NC-102		BURGGRAF
Weitz	Weitz	Eric		93-NC-144		BERMAN
				93-NC-276		BERMAN
	Pelka	David	G	93-NC-161		LEE
	Lobbis	Robert	M	93-NM-181		JACOBS
	Drake	Lawrence	A	93-NL-148	A	DICKINSON
				93-NI-013	A	ZARBO
	Forest	M. Gregory	L	93-NM-229		NACHMAN
	Moses	Randolph		93-NM-276		SJOGREN
	Trains	Saueel	J	93-NC-187		HEDBERG
Ohio State Univ Research Foundation	Tuovinen	Olli	H	93-NC-188		HEDBERG

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Ohio State University	Ahalt	Stanley	C	93-NL-095		TANGNEY	
	Majda	George		93-NM-225		SJOGREN	
	Miller	Terry	A	93-NM-147		NACHMAN	
	Ozday	Hltay		93-NE-331		SCHLOSSBER	
Ohio University	Sawley	Mo		93-NA-144	A	WU	
	Sierakowski	Robert		93-NA-106	A	SAKELL	
	Hokari	Ebrania		93-NA-095		JONES	
	McBee	Karen		93-NE-359		WITT	
Oklahoma State Univ, Coll. of Arts & Sci	Song	Jin-Joo		93-NL-121		KOZUMBO	
	Benjamin	D. Paul		93-NE-316		POMRENKE	
	Thompson	Donald	L	93-NM-135		WAKSMAN	
				93-NC-113		BERMAN	
Oklahoma State University	Grosch	Chester	E	93-NC-247		BURGGRAF	
	Li	Wu		93-NM-198		JACOBS	
	Robinson	Gerald	D	93-NM-141		GLASSMAN	
	Schusan	Werner	P	93-NE-228		WITT	
Optical Concepts, Inc	Quinn	Jarus	W	93-NC-271		LEE	
	Menon	P.	K	93-NE-244	D	SCHLOSSBER	
	Radzic	Vesna		93-NM-172		JACOBS	
	Lintz	Andrew		93-NC-159		LEE	
Optical Polymer Research	Hubbard, Jr.	James	E	93-NE-192		WEINSTOCK	
	DeFreez	Richard	K	93-NE-172		CRAIG	
	Sigmon	Thomas	W	93-NE-332		SCHLOSSBER	
	Burton, Jr.	Robert	D	93-NE-261		WITT	
Optical Society of America	D'Ambrosio	Bruce	M	93-NE-281		POMRENKE	
	Mahrt	Larry	J	93-NM-202	A	SJOGREN	
	Sleight	Arthur	W	93-NM-138		WAKSMAN	
				93-NL-172		STOBIE	
Optimal Synthesis	Ban	V.S.	K	93-NE-242	A	WEINSTOCK	
	Hohenwarter	Gert		93-NE-315	A	WEINSTOCK	
	Akritas	Michael		93-NE-223	A	POMRENKE	
	Asos	Anthony	K	93-NE-254	A	WEINSTOCK	
Optoelectronic Data Systems	Chung	T.	C	93-NM-142		SJOGREN	
	Cusumano	Joesph	P	93-NA-121		WU	
	Cutler	Paul	H	93-NC-228		ERSTFELD	
	Heran	Roger	M	93-NA-124		WU	
Optra Inc	Langston	Charles	A	93-NE-278	D	BARKER	
	Leibowitz	Herschel	W	93-NE-236	A	SCHLOSSBER	
	Merz	Kenneth	M	93-NL-088		DICKINSON	
	Micci	Michael		93-NL-096		COLLINS	
Patron Systems Inc	Pratt	J.R.	M	93-NC-153		BURGGRAF	
	Ray	Asok		93-NA-068		BIRKAN	
	Sentoro	Robert	J	93-NA-281		KOZUMBO	
	DRESSLER	Ho	Z	93-NL-130		GLASSMAN	
Pegon Graduate Institute of Sci & Tech	Phillips Lao - Geophysics Directorate			93-NM-064	A	BIRKAN	
	Physical Optics Corporation			93-NI-019	A	BOLAND	
				93-NC-115		LEE	
				93-NC-269	A	LEE	

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Physical Research Inc. Physical Sciences Inc Polytechnic Research Institute Polytechnic Univ. - Weber Research Inst. Polytechnic University Prairie View A and M Research Foundation Princeton Electronics System Princeton University	Shih		Robert		33-NE-189		POMRENKE
	Fitzpatrick		Gerald	L	93-NE-166		WEINSTOCK
	Opie		David		93-NE-355		KELLEY
	Komornicki		Andrew		93-NC-163		BURGGRAF
	Kalhoran		Iraj	M	93-NA-091		FANT
	Wolf		Ed	L	93-NE-328		WEINSTOCK
	Masudi		Houshang		93-NA-210		JONES
	Ghosh		Chuni		93-NE-245		POMRENKE
	Forrest		Stephen	R	93-NE-324		POMRENKE
	Jacobs		Garry	J	93-NL-168		HADDAD
Prosotheus, Inc. Purdue Research Foundation Purdue University	Jacobs		C	K	93-NA-061	A	TISHKOFF
	Law		Richard	B	93-NA-229		SAKELL
	Miles		Daniel		93-NA-227	A	SAKELL
	Nosenchuck		Herschel	A	93-NC-069		BURGGRAF
	Rabitz				93-NM-182		GLASSMAN
	Safts		Alexander	J	93-NA-228		SAKELL
	Stura		James	C	93-NE-279		POMRENKE
	Byrnes		James	S	93-NM-188		SJOGREN
	Espinosa		Horacio	D	93-NC-172		PECHENIK
	Weiner		Andrew	M	93-NE-163		CRAIG
Purdue University	Zoltowski		Michael	D	93-NM-258		SJOGREN
	Alleman		James	E	93-NL-142		KOZUMBO
	Sejaj		Chandrajit		93-NM-185		GLASSMAN
				L	93-NM-243		GLASSMAN
			Allen	J	93-NA-059	A	JONES
	Grandt, Jr		Robert	F	93-NE-286		POMRENKE
	Gunshor		Stephen	D	93-NA-065	A	BIRKAN
	Heister		Joseph	F	93-NM-192		GLASSMAN
	Perkny		R.	E	93-NM-129		JACOBS
	Skelton		C T		93-NA-111		JONES
Q.R.O.C., Incorporated Quantus Magnetics, Inc. QOI Technology Radiation Monitoring Devices, Inc. Rensselaer Polytechnic Institute	Sun		Daryoush		93-NA-153		JONES
	Allael		A.	D	93-NE-170	A	WEINSTOCK
	Hibbs		Michael		93-NC-162		LEE
	Hess		Michael	R	93-NE-197		WITT
	Quillante		Julian	D	93-NM-233		NACHMAN
	Cola		Mark		93-NM-275		NACHMAN
	Levi		Xi-Cheng		93-NE-337		SCHLOSSER
	Zhang		Robert	E	93-NM-196		GLASSMAN
	Bixby		K.	C	93-NE-358	A	WITT
	Wang		K.	O	93-NC-203		BERMAN
Rice University Rockwell Inter. Reser.&Dev. Center Rockwell International Rockwell International, Science Center	Christe		D.	J	93-NC-107	A	BERMAN
	Benard		V		93-NA-160	A	SAKELL
	Shanker				93-NA-171	D	SAKELL
			Itzhak		93-NL-165		COLLINS
	Madani		Max		93-NC-197		HEDBERG
	Hagblom		Miles		93-NE-256	A	CRAIG
	Murdocca		Red	S	93-NM-262		GLASSMAN
	Roberts		David	F	93-NM-286		GLASSMAN
	Shanno						

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S.I. Diamond Technologies, Inc	Shiffner	Margaret	M	93-NL-094		TANGNEY
	Zyistra	Gerben	J	93-NL-111		KOZUMBO
	Jamison	Keith	D	93-NE-226		POMRENKE
S2M Technology Inc	Podney	Walter		93-NE-229	A	WITT
	Farris	Gregory	W	93-NE-169		WEINSTOCK
	Helm	Hanspeter		93-NA-126		YISHKOFF
SRI International	Jeffries	Jay	B	93-NC-189		BERMAN
	Kachru	Ravinder		93-NC-138		BERMAN
	McMillen	Donald	F	93-NE-257		CRAIG
Santa Barbara Focalplane Science, Math & Engineering Inc	Mill	Theodore		93-NC-137		BERMAN
	Saxon	Roberta	P	93-NC-180		HEDBERG
	Jones	Colin	E	93-NC-190		BERMAN
Scientific Materials Corp	Burns	Michael	L	93-NE-350		POMRENKE
	Hutcheson	Ralph	L	93-NA-159		JONES
	Grubin	Harold	L	93-NE-218	A	CRAIG
Scientific Research Associates, Inc.	Mehra	R.	K	93-NE-186		POMRENKE
	Jaworski	James	P	93-NM-158		JACOBS
	Vializis	Angelo		93-NM-176		JACOBS
Southeastern Louisiana University	Rossano	Matt	J	93-NC-116		LEE
	Blanchard	Cheryl	R	93-NL-122	D	TANGNEY
	Nae	Derek	C	93-NC-112		PECHENIK
Spectra Diode Laboratories, Inc	Greenwald	Anton		93-NE-212	A	WITT
	Maruska	H. Paul		93-NE-177		POMRENKE
	Namavar	Fereydoon		93-NE-206		WITT
Spira Corporation	Greenwald	Anton	C	93-NE-178	A	POMRENKE
	Karam	Nasser	H	93-NE-353		POMRENKE
	Herrmann	Robert	B	93-NE-183		POMRENKE
St. Louis University	Boyd	Stephen	B	93-NL-086	A	DICKINSON
	Dvorkin	Jack		93-NM-115	A	JACOBS
	Fayer	Michael	D	93-NA-077		LEWIS
Stanford University	Inan	Umar	S	93-NC-167		BERMAN
	Siegean	Anthony	E	93-NL-180		RADOSKI
	Simo	Juan	C	93-NE-338		SCHLOSSBER
State University Of New York - Resch Fnd	Zare	Richard	N	93-NM-123	A	JACOBS
	van den Pol	Anthony	M	93-NC-226		BERMAN
	Hassett	John	P	93-NL-109	A	HADDAD
State University of New York	Chiang	Fu-Pen	K	93-NC-196		HEDBERG
	Likharev	Konstantin		93-NA-204		JONES
	Metcalfe	Harold		93-NE-330		WEINSTOCK
Stevens Institute of Technology	Nasrabadi	Nasser	M	93-NE-270		KELLEY
	Prasad	Paras	N	93-NM-216		JACOBS
	Saouel	Arthur	C	93-NC-244		LEE
Stevens Institute of Technology	Sikka	Harish	C	93-NL-174		TANGNEY
	Swolke	Scott		93-NL-126		KOZUMBO
	Wu	Neng Eva		93-NM-187	A	SUDDARTH
Stevens Institute of Technology	Yu	Qiqing		93-NM-215		JACOBS
	Kalyon	Dihan	M	93-NM-190		SJOGREN
				93-NA-197		JONES

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Structural Materials Research	Chan		Ken	S	93-NA-135		JONES
Structured Materials Industries (SMI)	Kia		S. I.		93-NE-207		WITT
	Sun		G.		93-NE-188		POMRENKE
Superior Vacuum Technology, Inc	Chom		Peter		93-NE-225	A	POMRENKE
Syracuse Univ - Dept Elec & Computer Eng	Van Hove		James		93-NE-232		WITT
	Domben		Peter		93-NE-333	A	WITT
Syracuse University	Weiner		Donald	D	93-NM-231		SJOGREN
	Craig		Gray	L	93-NM-283		SUDDARTH
	LaGriff		John	E	93-NA-231		FANT
Facan Corporation	Varshney		Pramod	K	93-NM-239		SJOGREN
	Bechtel		James	H	93-NC-117	A	LEE
Taras Shevchenko University	Salour		Michael	M	93-NC-260		LEE
Technology International, Inc	Chaichenko		G.	M	93-NL-144	D	TANGNEY
Tek Associates	Sabri		Heba		93-NM-163		JACOBS
Temple University	Kerr		Thomas		93-NM-180		JACOBS
	Labes		Mortimer	M	93-NE-317		WEINSTOCK
Texas A and M Research Foundation	Sullivan		Thomas	E	93-NE-326		WEINSTOCK
	Chen		Goong		93-NM-221		JACOBS
	Fabiano		Richard	H	93-NM-130		JACOBS
	Halverson		Don	R	93-NM-219		SJOGREN
	Pradhan		Dhiraj		93-NM-285		SUDDARTH
	Vance		J	M	93-NA-154	A	JONES
Texas A and M University	Junkins		John	L	93-NA-122		WU
	Kurdila		A. J.		93-NA-120		WU
	Schooeiri		I		93-NA-136		FANT
Texas Christian University	Zerda		T. Waldek		93-NC-129		ERSTFELD
The Core Group, Inc	McIntire		Harold	D	93-NM-174		JACOBS
Thin Film Concept	Weinman		Leslie		93-NE-199		WITT
Tristan Technologies	Paulson		Douglas		93-NE-168		WEINSTOCK
Truax Engineering, Inc	Vanags		Andrejs		93-NM-175		JACOBS
US Department of Interior Geological	Smith		Richard	L	93-NL-145		KOZUMBO
Univ of Akron	Katafygiotis		Lambros	S	93-NA-192		JONES
	Kelley		Frank	N	93-NC-204		LEE
Univ of Alabama	Chung		T J		93-NA-226		SAKELL
	Krannich		Larry	K	93-NC-131		BERMAN
Univ of Alaska	Swift		Oaniel	W	93-NM-211		JACOBS
Univ of Arizona	Barrett		Harrison	H	93-NE-246	A	CRAIG
	Brusseau		Mark	L	93-NA-188		LEWIS
	Calvert		Paul	D	93-NC-254		HEDBERG
	Gehrels		Tom		93-NL-179		RADOSKI
	Moloney		J.	V	93-NL-164	A	CRAIG
	Neifeld		Mark		93-NE-162		CRAIG
	Nezelli		A.	C	93-NE-165		CRAIG
	Pyghasbarian		Nasser	N	93-NC-239		LEE
	Wallace		Terry	C	93-NE-214	A	CRAIG
	Witten		Mark		93-NL-154		DICKINSON
Univ of Arkansas	Pulay		Peter	L	93-NL-116		KOZUMBO
					93-NC-147		BURGGRAF

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Univ of California, Berkeley

LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
Salas	Gregory	J	93-NE-303		PONRENKE
Concus	Paul		93-MM-145		WACHMAN
Hirsch	Morris	W	93-MM-240		SUDDARTH
Hu	Chenming		93-NE-267		SMITH
Jeanloz	Raymond		93-NL-158		DICKINSON
Lau	Kas		93-NE-302		CRAIG
Morse	Edward	C	93-MM-148		WACHMAN
Neumark	Daniel	M	93-NC-143		BERMAN
			93-NC-236		ROSENSTEIN
Ritchie	Robert	O	93-NC-246		WITT
Saith	John	S	93-NE-262		CRAIG
			93-NE-300		JACOBS
Strain	John		93-MM-268		SJOGREN
Zakhor	Avideh		93-MM-210		WACHMAN
Branner	George	R	93-MM-205	A	WEINSTOCK
Liu	Ji-Zhe		93-NE-327		ROSENSTEIN
Mukherjee	Amiya	K	93-NC-248		JONES
Rehfield	Lawrence	W	93-NA-196		SJOGREN
Wang	Jane-Ling		93-MM-217		BERMAN
Ankarian	V.	A	93-NC-099	A	BARKER
Benford	Gregory	A	93-NE-277		TANGNEY
Narens	Louis		93-NL-146	D	WACHMAN
Pazzani	Michael		93-MM-235		SUDDARTH
Scherson	Isaac		93-MM-254		JACOBS
Scheitendorf	W.	E	93-MM-214		LEE
Shea	Kenneth	J	93-NC-217		TANGNEY
Sperling	George	S	93-NL-173		LEWIS
Lade	Paul	V	93-NA-066		LEWIS
			93-NA-216		ERSTFELD
			93-NC-081	A	ERSTFELD
			93-NC-177		JONES
			93-NA-060	A	WACHMAN
			93-MM-104	A	SMITH
			93-NE-266		SAKELL
			93-NA-172		LEWIS
			93-NA-070	A	JACOBS
			93-MM-137		ERSTFELD
			93-NC-173		ERSTFELD
			93-NC-214		HADDAD
			93-NL-081		TANGNEY
			93-NL-087	A	BURGGRAB
			93-NC-165	A	TISHKOPF
			93-NA-116		PONRENKE
			93-NE-295	A	WEINSTOCK
			93-NE-325	A	BERMAN
			93-NC-080	A	BERMAN
			93-NC-098		JACOBS
			93-MM-259		

Univ of California, Davis

Univ of California, Irvine

Univ of California, Los Angeles

Univ of California, San Diego

Univ of California, Santa Barbara

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Univ of California, Santa Cruz	Bridgeman, J.	J.	S	93-NL-186		COLLINS
	Wright			93-NC-270		BERMAN
	Richardson		C	93-NE-345		SCHLOSSER
Univ of Central Florida	Stegeman	George	I	93-NC-207		LEE
				93-NE-299		CRAIG
Univ of Chicago	Mittenlocher	Janellen		93-NL-178		TANGNEY
	Rhodes	Charles	K	93-NE-348		SCHLOSSER
	Sibener	Steven	J	93-NA-203		JONES
Univ of Cincinnati				93-NC-250	A	ERSTFELD
	Dorsey	John	G	93-NC-263		ERSTFELD
	Ghia	Kirti	N	93-NL-159	A	KOZUMBO
Univ of Colorado	Gursul	Ismet	T	93-NA-085		FANT
	Hubbard	Arthur	E	93-NC-233		WILKES
	Mark	James	J	93-NC-249		LEE
Univ of Connecticut	Roe	R.		93-NC-272		LEE
	Sivaganesan	Siva	J	93-NC-179		SJOGREN
	Ablowitz	Mark		93-NM-131	A	NACHMAN
Univ of Denver	Cathy	M. Thomas		93-NM-264		CRAIG
				93-NE-215		CRAIG
				93-NE-249		WEINSTOCK
Univ of Florida	Douglas	Kenneth	C	93-NE-308		STOBIE
	Fritts	David		93-NL-151		GLASSMAN
	Glover	Fred		93-NM-191		BIRKAM
Univ of Georgia	Manalingan	Shankar	J	93-NA-071		BERMAN
	Nesbitt	David		93-NC-169		BERMAN
				93-NC-231		GLASSMAN
Univ of Houston	Schnabel	Robert	B	93-NM-186	A	GLASSMAN
	Bar-Shalom	Yaakov		93-NM-100		ROSENSTEIN
	Clapp	Philip	R	93-NC-191		JONES
Univ of Illinois	Madych	Volodymyr	A	93-NA-202		PONRENKE
	Detrio	John		93-NE-284		JONES
	Karpur	Prasanna		93-NA-099		WEINSTOCK
Univ of Michigan	Arce	Gonzalo	R	93-NE-314		JONES
	Kolodzey	James		93-NA-200		PONRENKE
	Santosa	Fadil	H	93-NE-312		JONES
Univ of Minnesota	Carpenter	Steve	D	93-NA-206		JONES
	Coombe	Robert		93-NA-207		BERMAN
	Abbaschian	Reza	H	93-NC-093	A	ROSENSTEIN
Univ of New York	Adair	James		93-NC-106		PECHENIK
	Ebrahimi	Fereshteh		93-NC-225		PECHENIK
	Halloway	Paul	L	93-NC-235		ERSTFELD
Univ of Pennsylvania	Hench	Larry	H	93-NC-251		ERSTFELD
	Simons	Joseph	A	93-NC-223		BERMAN
	Duncan	Michael	F	93-NC-274		BURGGRAB
Univ of Texas	Schaefer III	Henry	W	93-NC-216	A	WEINSTOCK
	Chu	C		93-NE-240		NACHMAN
	Hussain	Fazle		93-NM-245		

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Illinois	Ravi-Chandrar	K.			93-WA-097		JONES
		K			93-WA-134		JONES
		Krishnaswamy			93-WA-214		JONES
		Kenneth	W		93-WA-094	A	JONES
		Suresh	K		93-WA-113	A	TISHKOFF
		Farid	M		93-WA-133		WU
		Hassan			93-WA-147		MCMICHAEL
		John			93-WA-107	A	JONES
		Sabri			93-WA-118		WU
		Alexander			93-WA-109		JONES
		Dana	D		93-WC-128		BERMAN
		Kenneth			93-NE-260	A	SMITH
		Jiri			93-WC-253		ERSTFELD
		Walter	M		93-WC-242		PECHENIK
Univ of Indiana	Larson	A		93-WC-191		HEDBERG	
	Poulidakos			93-WA-075		BIRKAM	
	Sahinidis	V		93-WM-183		GLASSMAN	
	Wayman			93-WC-109		PECHENIK	
	Wieckoewski			93-WC-094		WILKES	
	Wilkins	C		93-WM-232		WAKSMAN	
	Wolfson			93-WM-244		SUDDARTH	
	Chen			93-WM-136		NACHMAN	
	Alvarez	J		93-WL-137		KOZUMBO	
	Butlers, Jr.			93-WL-163	W	KOZUMBO	
	Subbaswamy	R		93-NE-243		POMRENKE	
	Adewaitis	A		93-WM-222		JACOBS	
	Armstrong	W		93-WC-166		BERMAN	
	Berenstein			93-WM-218		SJOGREN	
Granatstein			93-NE-282		BARKER		
Maddocks	L		93-WM-118	A	NACHMAN		
McIlrath	H		93-NE-349		SCHLOSSER		
Rosenfeld	J		93-WM-255		SJOGREN		
Thurawalei			93-WC-155		BURGGRAB		
Finin	W		93-WM-105	A	WAKSMAN		
Calabrese	J		93-WL-120		KOZUMBO		
Chany	S		93-WA-217		LEWIS		
Cooney	J		93-WL-134		KOZUMBO		
Ganz			93-WM-243		SUDDARTH		
Karasz	E		93-WC-110		LEE		
Paikowsky	G		93-WA-069		LEWIS		
			93-WA-219		LEWIS		
			93-WM-271		JACOBS		
	Dennis	S		93-WM-095	A	GLASSMAN	
	Debashish			93-WC-104	A	ROSENSTEIN	
	Ronald			93-WL-187		STOBIE	
	Brian	E		93-WA-072	A	LEWIS	
	Roman	O		93-WM-093	A	JACOBS	
	Philip	L		93-WA-185		LEWIS	
	Milagros	S					
Univ of Maryland, Baltimore County							
Univ of Massachusetts							
Univ of Massachusetts at Lowell							
Univ of Michigan							

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INSTITUTION

INVESTIGATOR

MIDDLE

FIRST NAME

STATUS

PROPOSAL

PM NAME

Volakis
Winful
Basak
Bates
Cohen

Univ of Minnesota

John
Herbert
Subhash
Frank
Phillip

L
G
C
S
I

93-NC-192
93-NM-277
93-NE-304
93-NL-118
93-NC-237
93-NE-291
93-NE-305
93-NE-311
93-NM-195
93-NM-201
93-NL-110
93-NA-086
93-NM-266
93-NM-140
93-NM-209
93-NA-211
93-NM-121
93-NL-155
93-NL-104
93-NM-227
93-NC-182
93-NE-344
93-NA-191
93-NA-108
93-NA-102
93-NM-154
93-NM-256
93-NE-294
93-NA-201
93-NA-177
93-NL-139
93-NE-307
93-NM-252
93-NC-221
93-NC-195
93-NC-212
93-NC-146
93-NM-200
93-NC-210
93-NC-256
93-NE-301
93-NC-252
93-NC-262
93-NE-342
93-NC-071
93-NM-236
93-NA-079
93-NA-220

HEDBERG
NACHMAN
CRAIG
KOZUMBO
LEE
PORRENKE
PORRENKE
WEINSTOCK
GLASSMAN
JACOBS
KOZUMBO
FANT
SJOGREN
NACHMAN
NACHMAN
JONES
SUDDARTH
KOZUMBO
STOBIE
SJOGREN
HEDBERG
SCHLOSSBER
JONES
JONES
MCMICHAEL
SJOGREN
NACHMAN
CRAIG
JONES
LEWIS
KOZUMBO
PORRENKE
WAKSHAM
BERMAN
BERMAN
LEE
BERMAN
GLASSMAN
ERSFELD
LEE
PORRENKE
ROSENSTEIN
ROSENSTEIN
SCHLOSSBER
ERSFELD
SJOGREN
LEWIS
LEWIS

Goldman
Rosen
Fannenbaum
Wackett
Sinha
Basu
DeFazio

Univ of Minnesota, ORITA
Univ of Mississippi
Univ of Missouri

Allen
J.
Allen
Lawrence
Sumon
Asit
Brian

M
B
P
K
P

Dubroff
McMillin
Mossman
White
Bhattacharya
Miller
Malloy
Ross
Schreyer
Trusman
Dai
Figotin
Kissilev
Kelber
Saleh
Suspus
Perod
Ginsberg
Dailley
Dailley, III
Garito
Scherer
Zenios
Asher
Beratan
Choyke
Coalson
Pratt

Univ of Nebraska
Univ of Nevada
Univ of New Mexico

Richard
Bruce
Deborah
Dan
Prabir
Glenn
Kevin
Timothy
Howard
C Randall
Xingde
Alexander
Fouad
Jeffrey
Farida
John
Wolfgang
Mathew
William
William
Anthony
Norbert
Stavros
David
Wolfgang
Rob
David

E
M
J
C
J
J
L

Univ of North Carolina

Univ of North Texas

Univ of Notre Dame

Univ of Oregon
Univ of Pennsylvania

Univ of Pittsburgh

Univ of Rhode Island

Yates, Jr.
Kumaresan
Shukla

John
Randas
Arun

Y

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Univ of Rochester	Mukamel	Shaul		93-NC-218		BUNGRAF
	Sobolewski	Roman		93-NE-310		WEINSTOCK
	Bardet	Jean-Pierre		93-NA-161		LEWIS
Univ of Southern California		J P		93-NA-223		LEE
	Dalton	Larry	R	93-NC-241		SCHLOSSBER
	Hellearth	Robert		93-NE-339		CRAIG
	Jenkins	Keith		93-NE-306		ERSTFELD
	Koel	Bruce	E	93-NC-150		BARKER
	McCurdy	Alan	H	93-NE-283		SAKELL
	Muntz	E Phillip		93-NA-105		JACOBS
	Rosen	I. Gary		93-NM-234		JACOBS
	Safonov	Michael	G	93-NM-242		DICKINSON
	Samsis	Charles	G	93-NL-102		KOZUMBO
Univ of Tennessee	Flesing	James	T	93-NL-199		LEWIS
	Ghosh	Mriganka	M	93-NA-179		WILKES
	Masantov	Gleb		93-NC-273		SAKELL
	Vakili	Ahaad	D	93-NA-224		WEINSTOCK
	Eisenbauer	Ronald	L	93-NE-320		STOBIE
	Heelis	Roderick	A	93-NL-171		POMRENKE
	Kwong	Dim-Lee		93-NE-297		WACHMAN
	Ling	Hao		93-NM-282		WAKSMAN
	Porter	Bruce	W	93-NM-224		WITT
	Powers	Edward	J	93-NE-264		SMITH
Univ of Tennessee / Space Institute	Szebehely	Victor		93-NE-265		JONES
	Woodson	M.	H	93-NA-169		WITT
	de Lozanne	Alex		93-NE-255	A	WEINSTOCK
	Byrne	John	H	93-NE-318	A	HADDAD
	Trieff	Norman	M	93-NL-090	A	HEDBERG
	Keller	G. Randy		93-NC-198		DICKINSON
	Armentrout	Peter	B	93-NL-157		BERMAN
	Johnston	William	A	93-NC-257		TANGNEY
	Liou	K. N.		93-NL-182		STOBIE
	Simons	Jack		93-NL-149		BURGRAF
Univ of Vermont	Wight	Charles	A	93-NC-132		BERMAN
	Fuhr	Peter	L	93-NC-127		JONES
	Horgan	Cornelius	O	93-NA-198		WACHMAN
	Menaker	Michael		93-NM-260		HADDAD
	Richards	Mercedes		93-NL-167		RADOOSKI
	Towe	Elias	T	93-NL-185		CRAIG
	Banerjee	Sunirmal		93-NE-289		LEWIS
	Truckner	Adam		93-NA-082		LEWIS
	Eberhardt	Scott	P	93-NA-221		TISHKOFF
	Engel	Thomas		93-NA-215	A	JACOBS
Univ of Washington	Kavanagh	Terrance		93-NM-206		ERSTFELD
	Kurosaka	Mitsuru	J	93-NC-139		KOZUMBO
				93-NL-117		FANT
			93-NA-090		FANT	
			93-NA-230			

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INSTITUTION

INVESTIGATOR

FIRST NAME

MIDDLE

STATUS

PROPOSAL

PM NAME

State of Washington
 State of West Florida
 State of Wisconsin

State of Indiana

University of Illinois
 University of Idaho

University of Kansas
 Utah State University
 Vanderbilt University

Virginia Polytechnic Inst & State Univ

Aerial Reconnaissance Intelligence, Inc
 Defense Studies for Consultants Center
 Washington State University

Ericson	Robert		33-NC-227	HEDBERG
Stonitz	T. David		33-NL-133	KOZUMBO
Teller	David	Y	33-NL-097	TANGNEY
Arnold	Peter	F	33-NC-202	BERMAN
Snyder	Richard	A	33-NL-135	KOZUMBO
Ward	Richard		33-NM-144	SJOGREN
Ward	Richard		33-NE-274	BARKER
Ward	John		33-NA-212	JACOBS
Ward	J. Daniel		33-NA-091	LEWIS
Ward	Funer		33-VA-222	LEWIS
Ward	Funer		33-NC-170	ERSTFELD
Ward	Funer		33-NE-268	KELLEY
Ward	Funer		33-NA-213	JONES
Ward	Funer		33-NM-241	GLASSMAN
Ward	Funer		33-NE-273	BARKER
Ward	Funer		33-NM-213	JACOBS
Ward	Funer		33-NA-178	LEWIS
Ward	Funer		33-NL-160	KOZUMBO
Ward	Funer		33-NL-131	KOZUMBO
Ward	Funer		33-NC-193	HEDBERG
Ward	Funer		33-NM-245	WAKSMAN
Ward	Funer		33-NA-092	JONES
Ward	Funer		33-NM-133	SUDGARIN
Ward	Funer		33-NL-162	KOZUMBO
Ward	Funer		33-NL-132	KOZUMBO
Ward	Funer		33-NL-143	KOZUMBO
Ward	Funer		33-NC-223	HEDBERG
Ward	Funer		33-NM-099	SJOGREN
Ward	Funer		33-NA-192	LEWIS
Ward	Funer		33-NE-309	WEINSTOCK
Ward	Funer		33-NA-196	LEWIS
Ward	Funer		33-NA-139	JONES
Ward	Funer		33-VE-323	WEINSTOCK
Ward	Funer		33-NA-142	LEWIS
Ward	Funer		33-NL-114	KOZUMBO
Ward	Funer		33-NL-133	KOZUMBO
Ward	Funer		33-NM-274	JACOBS
Ward	Funer		33-NA-123	WU
Ward	Funer		33-NA-139	JONES
Ward	Funer		33-NM-150	JACOBS
Ward	Funer		33-VA-117	WU
Ward	Funer		33-NA-236	FANT
Ward	Funer		33-NA-237	FANT
Ward	Funer		33-NM-267	JACOBS
Ward	Funer		33-NM-173	JACOBS
Ward	Funer		33-NA-083	WU
Ward	Funer		33-NM-199	GLASSMAN
Ward	Funer		33-NL-115	KOZUMBO

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TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HYPERSONICS SYMPOSIUM - 17-19 MAY 1993 - WRIGHT LAB Air Force Wright Aeronautical Labs	Kinnel Roger	N 02 04/01/93 \$30,000	A SAKELL 93-NA-058	\$30,000 17/05/93 \$30,000
(MURI) MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES Purdue University	Grandt, Jr Alten	N 48 06/01/93 \$3,160,000	A JONES 93-NA-059	\$790,000 15/04/93 \$3,160,000
(MURI) CHARACTERIZATION OF MATERIALS DEGRADATION DUE TO CORROSION AND FATIGUE IN AEROSPACE STRUCTURES Univ of California, Los Angeles	Mal AJit	N 48 06/01/93 \$2,000,000	A JONES 93-NA-060	\$500,000 15/04/93 \$2,000,000
FUNDING FOR SEVEN AFAPRT STUDENT TRAINEES FOR ACADEMIC YEAR 1993-1994 Princeton University	Lee C	R 12 08/01/93 \$206,690	A TISHKOFF 93-NA-061	\$206,690 01/09/93 \$206,690
(MURI) MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES Northwestern University	Achenbach Jan	N 49 11/01/93 \$933,412	A JONES 93-NA-062	\$233,353 15/04/93 \$933,412
MECHANICS OF WIDE-SPREAD FATIGUE DAMAGE & LIFE-ENHANCEMENT METHODOLOGIES FOR AGING AEROSPACE STRUCTURES Georgia Tech Research Corporation	Atturi Satya	N 24 14/01/93 \$387,234	A JONES 93-NA-063	\$387,234 15/04/93 \$387,234
(AASERT-92) SWIRL EFFECTS ON COAXIAL INJECTOR ATOMIZATION Pennsylvania State University	Santoro Robert	N 24 14/01/93 \$131,433	A BIRKAN 93-NA-064	\$131,433 15/06/93 \$131,433
(AASERT -92) NEW APPROACHES FOR MODELING LIQUID JET ATOMIZATION Purdue University	Helster Stephen	N 24 14/01/93 \$127,238	A BIRKAN 93-NA-065	\$127,238 15/06/93 \$127,238
(AASERT-92) EXPERIMENTAL INVESTIGATION OF STRAIN LOCALIZATION IN SAND Univ of California, Los Angeles	Lade Paul	N 34 14/01/93 \$124,244	LEWIS 93-NA-066	

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(AASERT-92) ADVANCED ELECTRIC PROPULSION STUDIES Massachusetts Institute of Technology	Martinez-Sanchez	N 24 14/01/93 \$273,994	BIRKAM 93-NA-067	
(AASERT-92) LIQUID ROCKET MOTOR COMBUSTION STABILITY USING COAXIAL INJECTORS Pennsylvania State University	Micci	N 24 14/01/93 \$109,408	BIRKAM 93-NA-068	
(AASERT-92) SHEAR STRENGTH OF GRANULAR MATERIAL. UTILIZING ADVANCED PHOTOELASTIC MEASUREMENT TECHNIQUES Univ of Massachusetts at Lowell	Paikowsky	N 36 14/01/93 \$199,211	LEWIS 93-NA-069	
(AASERT-92) NON-INVASIVE, PHOTOCROMIC-TRACER STUDIES OF PARTICULATE SUSPENSIONS AND GRANULAR MEDIA Univ of California, San Diego	Soddard	N 36 14/01/93 \$26,500	A LEWIS 93-NA-070	\$86,500 01/06/93 \$86,500
(AASERT-92) ACOUSTIC-FLOW INTERACTIONS IN SOLID ROCKET MOTORS Univ of Colorado	Mahalingam	N 24 14/01/93 \$96,130	BIRKAM 93-NA-071	
(AASERT-92) EXPERIMENTAL MICROMECHANICS OF GEOMATERIALS THROUGH COMPUTER VISUALIZATION Univ of Michigan	Wrycia	N 36 14/01/93 \$63,787	A LEWIS 93-NA-072	\$63,787 01/06/93 \$63,787
(AASERT-92) THEORETICAL STUDIES OF GRANULAR MATERIALS FLOW Univ of Michigan	Hong	N 36 14/01/93 \$123,835	LEWIS 93-NA-073	
(AASERT-92) TWO PHASE MECHANICS OF FLOW DIFFUSION AND DEFORMATION IN PORO-ELASTIC MEDIA Massachusetts Institute of Technology	Chiang	N 36 14/01/93 \$112,500	LEWIS 93-NA-074	
(AASERT-92) CHARACTERIZATION OF HIGH-SPEED IMPINGING JET ATOMIZATION IN A HIGH PRESSURE Univ of Illinois	Poulikakos	N 24 14/01/93 \$100,962	BIRKAM 93-NA-075	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-92) STRAIN - RATE SENSITIVE CONSTITUTIVE RELATION FOR CONCRETE Auburn University	Tedesco Joseph	N 36 14/01/93 \$133,749	LEWIS 93-NA-076	
(AASERT-92) AN AUGMENTATION TO THE AIR FORCE SUPPORTING Stanford University	Dworkin Jack	N 36 14/01/93 \$201,063	LEWIS 93-NA-077	
(AASERT-92) FIBER-REINFORCED GRANULAR COMPOSITE: YIELDING AND FAILURE Johns Hopkins University	Michalowski Radoslaw	N 36 14/01/93 \$49,984	LEWIS 93-NA-078	
(AASERT-92) ROLE OF DAMAGE AND DAMAGE GROWTH ON DYNAMIC LOAD TRANSFER IN PARTICULATE MEDIA Univ of Rhode Island	Shukla Arun	N 36 14/01/93 \$213,854	LEWIS 93-NA-079	
(AASERT-92) AUGMENTATION FOR BASIC RESEARCH ON VAPOR TRANSPORT IN SOIL Cornell University	Lion Leonard	N 36 14/01/93 \$165,023	LEWIS 93-NA-080	
(AASERT-92) DISTINCT ELEMENT SIMULATION AND CONSTITUTIVE MODELING OF PARTICULATE MEDIA-STRUCTURE INTERFACE Univ of Wisconsin	Edil Tuncer	N 36 15/01/93 \$215,780	LEWIS 93-NA-081	
(AASERT) INTERACTIVE ANALYSIS OF SOIL-STRUCTURE INTERACTION Univ of Washington	Banerjee Sunirmal	N 36 15/01/93 \$85,213	LEWIS 93-NA-082	
WORKSHOP ON MULTIPLE SITE DAMAGE IN AGING AIRCRAFT Danner Robins Air Logistics Center	Register Daniel	N 06 21/01/93 \$10,000	A WU 93-NA-083	\$10,000 15/02/93 \$10,000
(AASERT-92) ADAPTIVE CONTROL FOR DIAGNOSIS OF TRANSIENT VORTEX INTERACTIONS Georgia Institute of Tech	Koverath Narayanan	N 36 21/01/93 \$88,874	A FANT 93-NA-084	\$88,874 01/06/93 \$88,874

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-92) DEVELOPMENT OF LES METHODOLOGY FOR THE ANALYSIS OF HIGH-REYNOLDS NUMBER 2-D AND 3-D DYNAMIC STALL PHENOMENON Univ of Cincinnati	Ghla	N 36 21/01/93 \$122,088	A FANT 93-NA-085	\$122,088 01/06/93 \$122,088
(AASERT-92) EDUCATING STUDENTS IN THE DEVELOPMENT OF EFFECTIVE FLOW SEPARATION CONTROL TECHNOLOGY FOR USE IN COMPLEX FLOWS Univ of Mississippi	Sinha	N 36 21/01/93 \$117,751	FANT 93-NA-086	
(AASERT-92-) EXPERIMENTAL RESEARCH ON THREE-DIMENSIONAL UNSTEADY FLOWS FIELDS Washington State University	Reaadrian	N 36 21/01/93 \$110,251	FANT 93-NA-087	
(AASERT-92) THE EFFECT OF A FLEXIBLE FIBER COVER ON CONTROLLING BOUNDARY LAYER FLOW AND HEAT TRANSFER Duke University	Bejan	N 36 21/01/93 \$96,422	FANT 93-NA-088	
(AASERT-92) INTERACTIONS AND CONTROL FOR HEAT TRANSFER IN TURBULENT END-WALL BOUNDARY LAYERS Lough University	Smith	N 36 21/01/93 \$120,000	A FANT 93-NA-089	\$120,000 01/06/93 \$120,000
(AASERT-92) SUPPLEMENTAL RESEARCH RELATED TO JET ENGINE COOLING Univ of Washington	Kurosaka	N 36 21/01/93 \$124,358	FANT 93-NA-090	
(AASERT-92) NUMERICAL STUDY OF THREE-DIMENSIONAL SHOCK WAVE-PORTX INTERACTION IN A SUPERSONIC STREAM Polytechnic Univ. - Weber Research Inst.	Kalhoran	N 36 21/01/93 \$105,170	FANT 93-NA-091	
(AASERT-92) GRADUATE STUDENT SUPPORT FOR ANALYTICAL MODELING OF HIGH RATE PROCESSES University of Alabama	Jones	N 24 22/01/93 \$158,715	JONES 93-NA-092	
(AASERT-92) INVESTIGATION OF DAMAGE MECHANISMS IN HIGH TEMPERATURE CERAMIC MATRIX COMPOSITES Drexel University	Wang	N 24 22/01/93 \$102,538	JONES 93-NA-093	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-92) FRACTURE PROCESS ZONE STUDIES OF STRENGTH CRITICAL FLAWS IN STRUCTURAL CERAMICS Univ of Houston	White Kenneth	N 24 22/01/93 \$159,071	A JONES 93-NA-094	\$120,000 01/06/93 \$120,000
(AASERT-92) COMPRESSION BEHAVIOR OF MMC AAT ELEVATED TEMPERATURE	Sierakowski Robert	N 24 22/01/93 \$367,700	JONES 93-NA-095	
(AASERT-92) INTERFACIAL PROPERTIES OF HIGH TEMPERATURE COMPOSITES Northeastern University	Keen Leon	N 24 22/01/93 \$383,565	JONES 93-NA-096	
(AASERT-92) MIXED-MODE FRACTURE OF SOLID PROPELLANTS Univ of Houston	Ravi-Chander K.	N 24 22/01/93 \$96,587	JONES 93-NA-097	
(AASERT-92) PROBABILISTIC OPTIMAL GROUNDWATER REMEDIATION PLANNING Duke University	Medina Miguel	N 36 22/01/93 \$217,604	LEWIS 93-NA-098	
(AASERT-92) NONDESTRUCTIVE METHODS FOR EVALUATING DAMAGE EVOLUTION AND MATERIALS BEHAVIOR IN METAL MATRIX COMPOSITES Univ of Dayton	Karpur Prasanna	N 24 22/01/93 \$167,056	JONES 93-NA-099	
(AASERT-92) MEMS--BASED DIAGNOSTICS FOR TURBULENT SHEAR FLOW Georgia Institute of Tech	Glezer Art	N 36 22/01/93 \$121,716	MCMICHAEL 93-NA-100	\$168,153 01/06/93 \$168,153
(AASERT-92) MICROMACHINED SENSORS FOR FLUID FLOWS Massachusetts Institute of Technology	Greer Kenneth	N 36 25/01/93 \$168,153	A MCMICHAEL 93-NA-101	
(AASERT-92) RESEARCH TRAINING IN LIGHT TRANSMISSION THROUGH TURBULENT SHEAR FLOWS Univ of New Mexico	Truman C Randall	N 36 25/01/93 \$125,557	MCMICHAEL 93-NA-102	

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(AASERT-92) DEVELOPING NEW GENERATION OF MODELS FOR TURBULENT FLOWS Yale University	Greenivasan Katedallil	N 36 25/01/93 \$138,189	A MCMICHAEL 93-NA-103	\$138,189 01/06/93 \$138,189
(AASERT-92) BLOCK INTERFACE TREATMENT FOR FLOW SIMULATION INVOLVING COMPOSITE GRIDS Mississippi State University	Soni Bharsat	N 36 25/01/93 \$100,905	SAKELL 93-NA-104	
(AASERT-92) NON-EQUILIBRIUM FLOW EXPERIMENTS IN THE USC IODINE FLOW FACILITY Univ of Southern California	Muntz E Phillip	N 36 25/01/93 \$152,957	SAKELL 93-NA-105	
(AASERT-92) A STUDY OF PERTURBED SUPERSONIC TURBULENT BOUNDARY LAYERS USING REAL-TIME Ohio State University	Sabnis Mo	N 36 25/01/93 \$111,989	A SAKELL 93-NA-106	\$111,989 01/06/93 \$111,989
(AASERT-92) FRACTURE CHARACTERISTICS OF FIBER REINFORCED COMPOSITES Univ of Illinois	Botsis John	N 36 25/01/93 \$75,000	A JONES 93-NA-107	\$75,000 01/06/93 \$75,000
(AASERT-92) OPTIMIZED SHAPES & LOCATIONS OF INCLUSIONS IN QUASI-BRITTLE MATERIALS Univ of New Mexico	Schreyer Howard	N 36 25/01/93 \$159,323	JONES 93-NA-108	
(AASERT-92) TOUGHENING OF BRITTLE MATERIALS Univ of Illinois	Chudnovsky Alexander	N 36 25/01/93 \$79,658	JONES 93-NA-109	
(AASERT-92) STRUCTURAL INTEGRITY OF AGING OF AEROSPACE STRUCTURES AND REPAIRS Georgia Institute of Tech	Aturia Satya	N 36 25/01/93 \$150,000	A JONES 93-NA-110	\$150,000 01/06/93 \$150,000
(AASERT-92) DEVELOPMENT OF NONLINEAR PIEZOELECTRIC CONSTITUTIVE MODELS Purdue University	Sun C T	N 36 25/01/93 \$74,638	JONES 93-NA-111	

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(AASERT-92) GRADUATE STUDENT SUPPORT FOR TURBULENT COMBUSTION MODELLING Cornell University	Pope Stephen	N 36 26/01/93 \$143,554	A TISHKOFF 93-NA-112	\$100,000 01/06/93 \$100,000
(AASERT-92) SPRAY VAPORIZATION AND COMBUSTION IN LARGE VORTICAL STRUCTURES Univ of Illinois	Aggarwal Suresh	N 36 26/01/93 \$105,226	A TISHKOFF 93-NA-113	\$105,226 01/06/93 \$105,226
(AASERT-92) OF TURBULENT COMBUSTION IN HIGH-SPEED FLOWS Univ of California, San Diego	Williams Forman	N 36 26/01/93 \$91,782	A TISHKOFF 93-NA-116	\$91,782 01/06/93 \$91,782
(AASERT-92) NONLINEAR AERDELASTICITY OF COMPOSITE WINGS Virginia Polytechnic Inst & State Univ	Mayfen All	N 36 26/01/93 \$161,712	A WU 93-NA-117	\$100,000 10/06/93 \$100,000
(AASERT-92) RECURRENT TYPE NEURO-CONTROLLERS FOR MOTION CONTROL SYSTEMS WITH DISTRIBUTED FLEXIBILITY: STABILITY AND ROBUSTNESS ISS Univ of Illinois	Catinkunt Sabri	N 36 26/01/93 \$78,119	WU 93-NA-119	
(AASERT-92) IDENTIFICATION AND OPTIMAL CONTROL ISSUES IN ADAPTIVE STRUCTURES Flight State University	Grandhi Ramana	N 36 26/01/93 \$103,390	WU 93-NA-119	
TE7725T-92) DYNAMIC RESPONSE AND CONTROL OF EVOLUTIONARY STRUCTURES Texas A and M University	Kurdila A. J.	N 36 26/01/93 \$209,861	WU 93-NA-120	
(AASERT-92) RESEARCH TRAINING IN SPACECRAFT DYNAMICS, STABILITY AND CONTROL Pennsylvania State University	Amos Anthony	N 36 26/01/93 \$93,676	WU 93-NA-121	
(AASERT-92) MECHANICS OF NONLINEAR FLEXIBLE STRUCTURES Texas A and M University	Jenkins John	N 36 26/01/93 \$209,861	WU 93-NA-122	

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CAASERT-92) SMART NONLINEAR MODAL CONTROL Virginia Polytechnic Inst & State Univ	Innan Daniel	N 36 27/01/93 \$135,981	WU 93-NA-123	
CAASERT-92) EXPERIMENTAL METHODS TO STUDY GLOBAL STABILITY AND MODAL INTERACTIONS IN STRUCTURES Pennsylvania State University	Cusumano Joeshp	N 36 27/01/93 \$167,486	WU 93-NA-124	
CAASERT-92) AEROELASTIC TURBULENCE AND HIGH-DIMENSIONAL CHAOS Duke University	Virgin Lawrence	N 36 27/01/93 \$148,827	WU 93-NA-125	\$99,981 10/06/93 \$99,981
NONLINEAR LASER DIAGNOSTICS FOR COMBUSTION AND PLASMA PROCESSES SRI International	Faris Gregory	N 36 27/01/93 \$569,980	TISHKOFF 93-NA-126	
COMBINED THEORETICAL & EXPERIMENTAL STUDY OF PHENOMENA RELATED TO LIMIT CYCLE OSCILLATIONS Michigan University	Walker J David	N 36 28/01/93 \$341,000	A JONES 93-NA-127	\$228,300 01/06/93 \$341,000
TRANSONIC FLOW SEPARATION IN CLOSED AND CURVED CHANNELS Czechoslovakia Academy of Sciences	Dvorak Rudolf	N 12 28/01/93 \$11,400	A FANT 93-NA-128	\$11,400 01/05/93 \$11,400
SBIR-93) MODELING THE PERFORMANCE AND INTEGRITY OF SHAPE MEMORY ALLOY REINFORCED COMPOSITES Materials Sciences Corp	Chatterjee, Ph.D. Sallendra	N 06 29/01/93 \$49,983	JONES 93-NA-129	
SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES Berkeley Applied Science & Engr.	Panahandeh M	N 06 29/01/93 \$49,896	A JONES 93-NA-130	\$49,896 01/07/93 \$49,896
SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES CSA Engineering, Inc.	Gibson Warren	N 06 29/01/93 \$64,692	A JONES 93-NA-131	\$64,692 01/07/93 \$64,692

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(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES MSNW Inc.	Sullivan Brian	N 06 29/01/93 \$59,521	A JONES 93-NA-132	\$59,521 01/07/93 \$59,521
DYNAMIC ANALYSIS OF TOPOLOGICAL CHANGES IN MECHANICAL SYSTEMS WITH INTERMITTENT MODE OF OPERATION Univ of Illinois	Amirouche Farid	N 36 29/01/93 \$256,589	MU 93-NA-133	
MIXED-MODE FRACTURE OF SOLID PROPELLANTS Univ of Houston	Ravi-Chandar K	N 36 29/01/93 \$220,467	JONES 93-NA-134	
(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURE Structural Materials Research	Chan Wen	N 6 04/02/93 \$49,864	JONES 93-NA-135	
EFFECT OF PERIODIC UNSTEADY FLOW ON TURBINE CASCADE AERODYNAMICS AND HEAT TRANSFER Texas A and M University	Schobert T	N 36 08/02/93 \$232,192	FANT 93-NA-136	
RECEPTIVITY IN BOUNDARY-LAYER TRANSITION TO TURBULENCE Arizona State University	Seric William	N 31 09/02/93 \$253,284	MCMICHAEL 93-NA-137	
LIMIT CYCLE OSCILLATIONS (LCO) AND NONLINEAR AEROELASTIC WING RESPONSE Duke University	Dowell Earl	N 36 09/02/93 \$217,169	A JONES 93-NA-138	\$141,220 01/06/93 \$217,169
A NEW APPROACH TO THE COMBINED PROBLEM OF DYNAMICS AND AEROELASTICITY OF SUPERMANEUVERABLE AIRCRAFT Virginia Polytechnic Inst & State Univ	Meirovitch Leonard	N 35 08/02/93 \$311,033	JONES 93-NA-139	
CONSTITUTIVE EQUATION FOR CONCRETE USING STRAIN-SPACE PLASTICITY MODEL New Jersey Institute of Technology	Hsu C T Thomas	N 24 08/02/93 \$96,353	JONES 93-NA-140	

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TWO PHASE MECHANICS OF FLOW, DIFFUSION AND DEFORMATION OF PORO-ELASTIC MEDIA Massachusetts Institute of Technology	Mei Chiang C	N 36 09/02/93 \$219,920	LEWIS 93-NA-141	
EXAMINATION OF THE VALIDITY OF STEADY STATE SHEAR STRENGTH DETERMINATION Virginia Polytechnic Inst & State Univ	Brandon Thomas	N 24 03/02/93 \$36,756	LEWIS 93-NA-142	
DAMPING OF VIBRATIONS IN PLATES AND BEAMS THROUGH THE MINIMIZATION OF REFLECTIONS North Dakota State University	Slosser Jacob	N 12 11/02/93 \$31,795	WU 93-NA-143	
CONTROLLER DESIGN FOR UNSTABLE AEROELASTIC SYSTEMS Ohio State University	Ozbay Hitay	N 12 11/02/93 \$54,999	WU 93-NA-144	\$47,000 15/06/93 \$47,000
VALIDATED AERO-OPTIC FACILITY PROGRAM Calspan-03 Research Center	Holden Mike	R 36 11/02/93 \$497,647	A SARELL 93-NA-145	\$497,647 / \$497,647
PROVIDE COMPUTER SUPPORT ON AFWL CRAY2 Air Force Weapons Lab	Wagers Mary Ann	N 06 11/02/93 \$10,000	A SARELL 93-NA-146	\$10,000 03/02/93 \$10,000
INTEGRABLE AND CHAOTIC MOTION OF A SOLID BODY THROUGH A FLUID Univ of Illinois	Gref Hassan	N 36 15/02/93 \$135,000	MCNICHAE 93-NA-147	
(SBR-93) THE EFFECTS OF EMBEDDED ACTUATORS AND SENSORS ON THE STRUCTURAL INTEGRITY AND DURABILITY OF INTELLIGENT STRUCTURES Advanced Composites Laboratory	Ting Joseph	N 06 16/02/93 \$56,218	JONES 93-NA-148	
(SBR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS General Science & Technology Inc.	Yonein Tamas	N 06 16/02/93 \$50,000	JONES 93-NA-149	

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(SBIR-93) ANALYTICAL CHARACTERIZATION OF SENSOR/ACTUATOR EMBEDDED INTELLIGENT MATERIALS Fiber and Sensor Technologies	Waller Mark	N 06 17/02/93 \$49,850	A JONES 93-NA-150	\$49,850 01/07/93 \$49,850
(SBIR-93) MODELLING OF ELECTROMECHANICAL BEHAVIOR IN SMART STRUCTURES ASTA Engineering Incorporated	Sun, Ph.D. Wei	N 06 17/02/93 \$50,000	JONES 93-NA-151	
(SBIR-93) INTEGRATED INTELLIGENT STRUCTURES FOR SUPPRESSING STATIC AEROTHERMOELASTIC DEFORMATIONS AND FLUTTER OF PANELS CIC Technologies, Incorporated	Chu Li-Chuan	N 06 17/02/93 \$50,000	A JONES 93-NA-152	\$50,000 01/07/93 \$50,000
(SAIR-93) MATHEMATICAL MODELS OF SHAPE MEMORY ALLOY ACTUATORS Q.R.D.C.. Incorporated	allaei Daryoush	N 06 17/02/93 \$69,424	JONES 93-NA-153	
RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS A&M UNIVERSITY, 1992-93 Texas A and M Research Foundation	Vance J	R 12 17/02/93 \$47,000	A JONES 93-NA-154	\$47,000 15/08/93 \$47,000
NASA AMES COMPUTER GRAPHICS SUPPORT FOR PARVIZ MOIN NASA - Ames Research Center	Rodallo Bob	N 08 18/02/93 \$40,000	A MCMICHAEL 93-NA-155	\$40,000 01/02/93 \$40,000
NASA AMES COMPUTER GRAPHICS SUPPORT FOR PARVIZ MOIN NASA - Ames Research Center	Rodallo	N 08 19/02/93 \$15,000	A MCMICHAEL 93-NA-156	\$15,000 01/02/93 \$15,000
ITEL ASSESSMENT OF JAPANESE RED IN MICROELECTROMECHANICAL SYSTEMS. National Science Foundation	Yang Deborah	N 08 19/02/93 \$30,000	A MCMICHAEL 93-NA-157	\$30,000 15/02/93 \$30,000
PROVIDE COMPUTER SUPPORT ON AFML GRAY 2 TO AFOSR CONTRACTOR Air Force Weapons Lab	Mages Mary Ann	N 12 19/02/93 \$18,000	A MCMICHAEL 93-NA-158	\$18,000 01/10/92 \$18,000

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(SBIR-93) STRUCTURAL INTEGRITY OF INTELLIGENT MATERIALS AND STRUCTURES Science , Math & Engineering Inc	Burns	N 06 01/03/93 \$49,991	JONES 93-NA-159	
DEVELOPMENT OF COMPUTATIONAL ELECTROMAGNETICS (CEM) FOR MULTI- DISCIPLINARY INTEGRATION STUDIES Rockwell International, Science Center	Shankar	N 36 02/03/93 \$556,822	A SAKELL 93-NA-160	\$42,378 01/07/93 \$556,822
SHEAR BANDING AND CRACK PROPAGATION IN SOILS Univ of Southern California	Cardet	N 36 03/03/93 \$239,896	LEWIS 93-NA-161	
SHEAR BANDING AND CRACK PROPAGATION IN SOILS Case Western Reserve University	Seade	N 36 01/03/93 \$547,883	LEWIS 93-NA-162	
LIQUID HELIUM AS A TEST FLUID IBM Thomas J. Watson Research Center	Schwarz	N 28 08/03/93 \$185,921	A MCMICHAEL 93-NA-163	\$35,357 01/06/93 \$185,921
THREE-DIMENSIONAL CRACK GROWTH AND STABILITY Northwestern University	Keer	N 36 11/03/93 \$343,613	JONES 93-NA-164	
FRACATURE AT AND NEAR INTERFACES UNDER PRESSURE California Institute of Technology	Knauss	N 48 11/03/93 \$155,013	JONES 93-NA-165	
TITANIUM ALUMINIDE COMPOSITES: BEHAVIOR OF THE INTERFACE AND THE LOCAL STATE STRESS Arizona State University	Kouris	N 36 11/03/93 \$269,169	JONES 93-NA-166	
THE FUNDAMENTALS OF THE INTERACTIONS BETWEEN TWO JETS LOADED RESPECTIVELY WITH FUEL DROPS AND OXIDER DROPS Jet Propulsion Laboratory	Sellan	N 36 12/03/93 \$612,500	BIRKAM 93-NA-167	

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GRAY 2 SUPPORT FOR CHUNG/ALABAMA				
Air Force Weapons Lab	Mages	N 08 16/03/93 \$4,600	A SAKELL 93-NA-168	\$4,600 04/02/93 \$4,600
MULTIDAY DEEP SPACE ORBITS				
Univ of Texas	Szebehely	N 36 17/03/93 \$60,000	JONES 93-NA-169	
THRUST VECTOR CONTROL OF RECTANGULAR JETS USING COUNTERFLOW				
Florida A&M University	Krothapalli	N 24 17/03/93 \$500,000	MCMICHAEL 93-NA-170	
SOLUTION OF MAXWELL'S EQUATIONS FOR AEROSPACE SYSTEMS				
Rockwell International, Science Center	Shankar	N 36 17/03/93 \$600,097	D SAKELL 93-NA-171	
NUMERICAL STUDIES OF LOW-DENSITY TWO-DIMENSION HYPERSONIC FLOWS BY USING THE NAVIER-STOKES & BURNETT EQUATIONS WITH NONEQUILIBRIUM				
Univ of California, Los Angeles	Zhong	N 36 17/03/93 \$244,959	SAKELL 93-NA-172	
STOCHASTIC MODELING OF FIELD-SCALE DISPERSION OF POLLUTANTS				
New York University	Avellaneda	N 36 19/03/93 \$565,554	LEWIS 93-NA-173	
SORPTION OF ORGANIC FUEL IN CLAYS: APPLICATION OF NEUTRON SCATTERING				
National Inst. of Standards & Technology	Hanley	N 36 19/03/93 \$395,000	LEWIS 93-NA-174	
OPTIMIZING THE PROPERTIES OF CATIONIC SURFACTANT MODIFIED SUB-SOILS FOR IN-SITU REMEDIATION				
Michigan State University	Soyd	N 36 19/03/93 \$362,512	LEWIS 93-NA-175	
WAVEFRONT PROPAGATION IN RANDOM MEDIA				
Michigan State University	Ostojka-Starzowski	N 36 19/03/93 \$205,772	LEWIS 93-NA-176	

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ENVIRONMENTAL & THERMAL REACTIONS OF POLYFLUORINATED POLYETHERS BY INVERSE GAS CHROMATOGRAPHY & PYROLYSIS CHROMATOGRAPHY-MASS SPECT Univ of North Texas	Salah Farida	N 36 19/03/93 \$275,557	LEWIS 93-NA-177	
ADSORPTION OF HAZARDOUS ORGANIC COMPOUNDS BY MINERAL SURFACES Univ of Wyoming	Carroll Keith	N 36 19/03/93 \$732,355	LEWIS 93-NA-178	
BEHAVIOR OF VOLATILE ORGANIC COMPOUNDS IN THE SUBSURFACE Univ of Tennessee	Gosh Mriganka	N 36 19/03/93 \$300,014	LEWIS 93-NA-179	
SOIL DECONTAMINATION BY EXCITATION OF ELECTROMAGNETIC WAVE Lehigh University	Fang Hsai-Yang	N 30 19/03/93 \$176,624	LEWIS 93-NA-180	
FLOW OF NONAQUEOUS FLUIDS IN PARTICULATE SYSTEM Lehigh University	Hong Daniel	N 36 19/03/93 \$358,080	LEWIS 93-NA-181	
STOCHASTIC ANALYSIS OF LARGE SCALE TWO-PHASE FLOW SYSTEMS Utah State University	Kaluvarachi Jasgath	N 30 19/03/93 \$249,664	LEWIS 93-NA-182	
JUSTIFIABLE FINISHER FLOW IN SOIL-WATER-AIR SYSTEMS: THEORETICAL PREDICTIONS AND EXPERIMENTAL VERIFICATION Cornell University	Steenhuis Tammo	N 36 19/03/93 \$600,000	LEWIS 93-NA-183	
THE TRANSPORT, SORPTION, AND DEGRADATION OF TETRACYCLOHEPTANE IN VARIABLELY SATURATED SOIL Colorado State University	Butters Greg	N 36 20/03/93 \$341,760	LEWIS 93-NA-184	
SORPTION/DESORPTION STUDIES AND SOIL INTERACTIONS OF SELECTED CHEMICALS Univ of Michigan	Simpson Mladinos	N 36 20/03/93 \$295,802	LEWIS 93-NA-185	

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PROCESSES AFFECTING VOLATILE TRANSPORT IN THE UNSATURATED SOIL ZONE Yanderbilt University	Cho H Jaen	N 36 20/03/93 \$272,361	LEWIS 93-NA-186	
DISTRIBUTION OF LIQUID PHASE HYDROCARBONS IN LAYERED SOIL: HYSTERESIS IN CAPILLARY PRESSURE SATURATION RELATIONS Colorado State University	Turnford Deanna	N 24 20/03/93 \$135,843	LEWIS 93-NA-187	
FACTORS CONTROLLING THE MOVEMENT OF VOLATILE ORGANIC COMPOUNDS IN THE VADOSE ZONE Univ of Arizona	Trusseau Mark	N 36 20/03/93 \$301,721	LEWIS 93-NA-188	
(JRIP-FY93) GLOBAL IMAGING OF INHOMOGENEITIES Kansas State University	Ross Alexander	N 36 22/03/93 \$135,726	JONES 93-NA-189	
(CURIP-FY93) CORROSION & FATIGUE OF ALUMINUM ALLOYS: CHEMISTRY, MICROMECHANICS AND RELIABILITY Unhigh University	Wei Robert	N 36 22/03/93 \$648,150	JONES 93-NA-190	
(CURIP-FY-93) PREDICTION AND NONDESTRUCTIVE EVALUATION OF CORROSION DAMAGE IN METALLIC MATERIALS Univ of New Mexico	Ross Timothy	N 36 22/03/93 \$674,359	JONES 93-NA-191	
(CURIP-FY93) NONDESTRUCTIVE EVALUATION FOR DAMAGE BY VIBRATION MONITORING Univ of Akron	Katayglootis Lambros	N 24 22/03/93 \$200,622	JONES 93-NA-192	
(CURIP-FY93) NDE OF AGED AIRCRAFT STRUCTURES USING ACOUSTIC AND LASER BASED TECHNIQUES Ruturn University	Raju P K	N 36 22/03/93 \$484,239	JONES 93-NA-193	
(CURIP-FY93) DETECTION OF AIRCRAFT FAULT MECHANISMS USING STRESS WAVE ANALYSIS Florida International University	Levy Cesar	N 36 23/03/93 \$750,000	JONES 93-NA-194	

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(URIP-FY93) THE APPLICATION OF MICROELECTRODES FOR DEVELOPMENT OF REMOTE SENSORS OF CORROSION IN COATED SUBSTRATES North Dakota State University	Sierwagen Gordon	N 36 23/03/93 \$310,116	JONES 93-NA-195	
(JRIP-FY93) DEVELOPMENTAL PROCESSES & NONDESTRUCTIVE EVALUATION OF CORROSION IN AIRCRAFT STRUCTURES Univ of California, Davis	Rehfield Lawrence	N 36 23/03/93 \$450,741	JONES 93-NA-196	
(URIP-FY93) NON-DESTRUCTIVE EVALUATION OF HIDDEN CORROSION IN COMPOSITES USING INTEGRATED X-RAY RADIOGRAPHY & COMPUTED TOMOGRAPH Stevens Institute of Technology	Ollhan Kaiyon	N 36 23/03/93 \$749,996	JONES 93-NA-197	
(URIP-FY93) AIRCRAFT CORROSION MONITORING USING SURFACE ATTACHED AND EMBEDDED SENSORS Univ of Vermont	Fuhr Peter	N 36 23/03/93 \$575,168	JONES 93-NA-198	
(URIP-FY93) PRETTING CORROSION IN AIRFRAME RIVETED AND PINNED CONNECTIONS Panderbilt University	Hahn George	N 36 24/03/93 \$527,084	JONES 93-NA-199	
(JRIP-FY93) SYNTHETIC TOMOGRAPHIC IMAGING ARRAYS FOR NDE Univ of Delaware	Arce Gonzalo	N 36 24/03/93 \$328,663	JONES 93-NA-200	
(URIP-FY93) COMBINED ELECTROCHEMICAL/ULTRA-HIGH VACUUM STUDIES OF CORROSION OF TITANIUM AND ALUMINUM ALLOYS Univ of North Texas	Kelber Jeffrey	N 36 24/03/93 \$492,405	JONES 93-NA-201	
(URIP-FY93) EXPERIMENTAL AND THEORETICAL ASPECTS OF CORROSION DETECTION AND PREVENTION Univ of Connecticut	Madych Wolodymyr	N 36 24/03/93 \$707,391	JONES 93-NA-202	
(URIP-FY93) SCANNING TUNNELING MICROSCOPY OF SURFACE REACTIONS Univ of Chicago	Sibenor Steven	N 36 24/03/93 \$707,330	JONES 93-NA-203	

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(URIP-FY93) NONDESTRUCTIVE AND NONCONTACT EVALUATION OF CORROSION & FATIGUE BY LASER SPECKLE SENSOR (LSS) AND LASER MOIRE State University of New York	Chiang Fu-Pen	N 36 24/03/93 \$599,367	JONES 93-NA-204	
(URIP-FY93) THERMAL WAVE IMAGING FOR NDE OF HIDDEN CORROSION IN AIRCRAFT COMPONENTS Wayne State University	Thomas Robert	N 36 24/03/93 \$365,656	JONES 93-NA-205	
(URIP-FY93) NONDESTRUCTIVE EVALUATION OF CORROSION-DAMAGED STRUCTURES Univ of Delaware	Santosa Fadil	N 36 24/03/93 \$749,989	JONES 93-NA-206	
(URIP-FY93) A PROPOSAL TO INVESTIGATE ACOUSTIC RESONANCE SPECTROSCOPY FOR DETECTION OF CORROSION IN STRUCTURES & COMPONENTS Univ of Denver	Carpenter Steve	N 36 24/03/93 \$386,841	JONES 93-NA-207	
(URIP-FY93) NONDESTRUCTIVE DETECTION AND CHARACTERIZATION OF CORROSION IN AIRCRAFT Iowa State Univ of Science and Tech	Rose James	N 36 24/03/93 \$717,500	JONES 93-NA-208	
TIME DEPENDENT BEHAVIOR OF POLYMER DERIVED CERAMIC MATRIX COMPOSITES MSMUC Inc.	Guesking Kent	N 24 25/03/93 \$299,712	JONES 93-NA-209	
(URIP-FY93) ROBOTIC MANIPULATION USING FUZZY LOGIC & NEURAL NETWORKS FOR APPLICATIONS IN NON-DESTRUCTIVE INSPECTION OF HIDDEN Prairie View A and M Res Arch Foundation	Vasjda Houshang	N 36 25/03/93 \$660,173	JONES 93-NA-210	
(URIP-FY93) NONDESTRUCTIVE EVALUATION USING ACOUSTIC IMAGING AND DETECTION METHODS Univ of Missouri	Dubroff Richard	N 36 25/03/93 \$326,477	JONES 93-NA-211	
(URIP-FY93) IN-SITU DETERMINATION OF PASSIVATION AND CORROSION FILMS ON METALS Memphis State University	Li Ying-Sing	N 36 25/03/93 \$231,270	JONES 93-NA-212	

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CURIP-FY93) HYDROGEN EMBRITTLEMENT EFFECTS ON THE CRACK GROWTH OF AN AL-LI ALLOY IN HYDROGENOUS AND SCC ENVIRONMENTS Univ of Wisconsin	Hudd Lopez	N 36 25/03/93 \$186,022	JONES 93-NA-213	
CURIP-FY93) DETECTION OF HIDDEN CORROSION USING ULTRASONIC IMAGING Univ of Houston	Ravi-Chander Krishnaswamy	N 36 25/03/93 \$499,551	JONES 93-NA-214	
BASIC AND APPLIED STUDIES OF THE RAM ACCELERATOR AS A HYPERVELOCITY PROJECTILE LAUNCHER Univ of Washington	Bruckner Adam	R 12 25/03/93 \$200,000	A TISHKOFF 93-NA-215	\$200,000 01/07/93 \$200,000
CAASERT-FY93) EXPERIMENTAL INVESTIGATION OF STRAIN LOCALIZATION IN SAND Univ of California, Los Angeles	Lude Paul	N 36 26/03/93 \$124,880	LEWIS 93-NA-216	
CAASERT-FY93) COMPUTER SIMULATION MODEL FOR DEFORMATION AND DAMAGE OF BONDED PARTICULATES Univ of Massachusetts	Chang Ching	N 36 26/03/93 \$97,585	LEWIS 93-NA-217	
CAASERT-FY93) DYNAMIC PLASTICITY FOR GRANULAR MATERIALS Yale University	Schlinger Robert	N 36 26/03/93 \$83,694	LEWIS 93-NA-218	
CAASERT-FY93) SHEAR STRENGTH OF GRANULAR MATERIAL, UTILIZING ADVANCED PHOTOELASTIC MEASUREMENT TECHNIQUES Univ of Massachusetts at Lowell	Polkowsky Samuel	N 36 26/03/93 \$199,211	LEWIS 93-NA-219	
CAASERT FY-93) ROLE OF DAMAGE AND DAMAGE GROWTH ON DYNAMIC LOAD TRANSFER IN PARTICULATE MEDIA Univ of Rhode Island	Shukla Arun	N 36 26/03/93 \$213,854	LEWIS 93-NA-220	
CAASERT-FY93) INTERACTIVE ANALYSIS OF SOIL-STRUCTURE INTERACTION Univ of Washington	Sanerjee Saniraj	N 36 26/03/93 \$85,215	LEWIS 93-NA-221	

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INVESTIGATOR

(AASERT-FY93) DISTINCT ELEMENT SIMULATION AND CONSTITUTIVE
MODELING OF PARTICULATE MEDIA-STRUCTURE INTERFACE
Univ of Wisconsin

Tuncer

LEWIS
93-NA-222

N 36
25/03/93
\$214,990

(AASERT-FY93) GRADUATE RESEARCH IN MATERIAL INSTABILITY

Tardet

LEWIS
93-NA-223

N 36
25/03/93
\$104,852

Univ of Southern California

J P

(AASERT-FY93) COMPUTATIONAL STUDY OF ACTIVE CONTROL/STORE

SEPARATION
Univ of Tennessee / Space Institute

Amrad

SAKELL
93-NA-224

N 36
27/03/93
\$150,000

(AASERT-FY93) TIME ACCURATE COMPUTATIONAL ANALYSIS OF MIXED
COMPRESSION INLET STABILITY
North Carolina State University

McRae

D Scott

SAKELL
93-NA-225

N 36
27/03/93
\$121,764

(AASERT-FY93) DIRECT NUMERICAL SIMULATION OF HYPERSONIC TURBULENCE
SHOCK BOUNDARY LAYERS
Univ of Alabama

Chung

T J

SAKELL
93-NA-226

N 36
27/03/93
\$90,023

(AASERT-FY93) COMPLEX FLOW-CONTROL SIMULATIONS USING THE NAVIER
STOKES COMPUTER
Princeton University

Nosanchuck

Daniel

SAKELL
93-NA-227

N 36
27/03/93
\$397,958

(AASERT-FY93) STUDIES OF HYPERSONIC VEHICLE FLOWFIELDS

Princeton University

Salts

Alexander

SAKELL
93-NA-228

N 36
27/03/93
\$235,416

(AASERT-FY93) STUDENT TRAINING PROGRAM IN DIGITAL PROCESSING AND
DISPLAY OF IMAGES OF HIGH-SPEED, TIME-EVOLVING FLOW FIELDS
Princeton University

Miles

Richard

SAKELL
93-NA-229

N 36
27/03/93
\$263,071

(AASERT-FY93) SUPPLEMENTAL RESEARCH RELATED TO JET ENGINE COOLING
Univ of Washington

Kurosaka

Mitsuru

FANT
93-NA-230

N 36
29/03/93
\$119,898

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(AASERT-FY93) SYRACUSE/OXFORD UNSTEADY HEAT TRANSFER PROJECT Syracuse University	Labraff	N 36 29/03/93 \$128,458	FANT 93-NA-231	
(AASERT-FY93) NEW APPROACHES TO TURBOMACHINERY INSTABILITIES - PREDICTION AND UNDERSTANDING Massachusetts Institute of Technology	Greitzer	N 36 29/03/93 \$115,756	FANT 93-NA-232	
(AASERT-FY93) CONTROL OF LEADING-EDGE VORTICES WITH SUCTION Univ of Cincinnati	Inrsul	N 36 29/03/93 \$129,227	FANT 93-NA-233	
(AASERT-FY93) EXPERIMENTAL & NUMERICAL STUDIES OF UNSTEADY HEAT TRANSFER IN A TRN Virginia Polytechnic Inst & State Univ	Wing	N 36 30/03/93 \$126,151	FANT 93-NA-234	
(AASERT-FY93) CONTROL OF STALLED WINGS Florida A&M University	Lawrence	N 24 30/03/93 \$45,797	FANT 93-NA-235	
(AASERT-FY93) ACTIVE STABILIZATION OF COMPRESSORS AND INLETS Massachusetts Institute of Technology	Epstein	N 36 30/03/93 \$294,136	FANT 93-NA-236	
(AASERT-FY93) WIND TUNNEL FREE FLIGHT ON A DYNAMIC STRUT Virginia Polytechnic Inst & State Univ	Talmonis	N 36 31/03/93 \$130,503	FANT 93-NA-237	
(AASERT-FY93) THE ORIGIN OF TRANSIENT SIDE FORCES DURING THE PITCH-AND-STOP MANEUVER Illinois Institute of Technology	Williams	N 36 31/03/93 \$129,672	FANT 93-NA-238	

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IASERT-92 EXTRACTION OF HIGH QUALITY POTENTIAL SURFACES FROM LABORATORY DATA Princeton University	Labitz Herschel	N 36 04/01/93 \$135,402	A BURGGRAF 93-NC-069	\$134,864 15/05/93 \$135,402
IASERT-92 AN UNEXPECTED ADSORPTION SITE EXCLUSION PROCESS ON SIC(100)-(2X1) Univ of Pittsburgh	Yates, Jr. John	N 36 04/01/93 \$109,072	A ERSTFELD 93-NC-071	\$109,072 01/06/93 \$109,072
IASERT-92 EXTENSIONS TO HYPERPOLARIZABILITY CALCULATIONS Lebanis State University	Kurtz Henry	N 36 04/01/93 \$59,316	A BURGGRAF 93-NC-074	\$59,316 15/05/93 \$59,316
IASERT-92 FUNDAMENTAL STUDIES OF A HIGH ENERGY MOLECULAR SYSTEM: SPECTROSCOPY OF BORON IN HYDROGEN CLUSTERS California Institute of Technology	Okamura Mitchio	N 36 04/01/93 \$144,576	A BERMAN 93-NC-076	\$144,576 01/06/93 \$144,576
IASERT-92 CARBON CLUSTER IONS Univ of California, Santa Barbara	Bowers Michael	N 36 04/01/93 \$172,478	A BERMAN 93-NC-080	\$172,478 01/06/93 \$172,478
IASERT-92 GRADIENT INDEX LENSES FROM SOL-GEL LAYERING Univ of California, Los Angeles	MacKenzie John	N 36 04/01/93 \$123,472	A ERSTFELD 93-NC-081	\$123,472 01/07/93 \$123,472
IASERT-92 A NOVEL PHOTOCHEMICAL AND INTERFACIAL APPROACH TO THE DEGRADATION OF HAZARDOUS MATERIALS Columbia University	Torre Nicholas	N 36 04/01/93 \$103,670	A HEIDBERG 93-NC-082	\$103,670 01/06/93 \$103,670
IASERT-92 EXPERIMENTAL VERIFICATION OF OPTIMALLY DESIGNED METAL FORMING PROCESSES Bright State University	Grandhi Ramana	N 36 04/01/93 \$103,390	A ROSENSTEIN 93-NC-091	\$103,390 01/06/93 \$103,390
ENERGY TRANSFER FROM EXCITED NITRENE AT HIGH DENSITIES Univ of Denver	Coabe Robert	N 12 04/01/93 \$57,004	A BERMAN 93-NC-093	\$57,044 01/05/93 \$57,044

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HETEROGENEOUS OXIDATIVE ELECTROCATALYSIS WITH PLATINUM SUBSTRATES COVERED BY WELL-CHARACTERIZED ANIONIC OVERLAYERS Univ of Illinois	Wlcekowski Andrzej	N 36 04/01/93 \$360,000	WILKES 93-NC-094	
CRITICAL POINTS ON MANY DIMENSIONAL SURFACES - DIMENSIONAL REDUCTION AND THE EFFECTS OF AN EXTERNAL ENVIRONMENT Albert Einstein College of Medicine	Schwartz Steven	N 36 04/01/93 \$417,354	BURGGRAF 93-NC-096	
GRAY 2 CALCULATIONS ON STRUCTURE OF CLUSTER IONS Univ of California, Santa Barbara	Isomers Michael	N 12 05/01/93 \$3,000	A BERMAN 93-NC-098	\$3,000 01/10/92 \$3,000
(PURE) ADVANCED CRYOGENIC PROPELLANTS Univ of California, Irvine	Akerman V.	N 48 06/01/93 \$2,760,000	A BERMAN 93-NC-099	\$690,000 15/04/93 \$2,760,000
CARBONACEOUS DEPOSIT FORMATION FROM ADVANCED FUELS UNDER SUPERCRITICAL CONDITIONS Yale University	Pfefferle Lisa	N 36 11/01/93 \$517,112	HEBERG 93-NC-101	
THEORETICAL STUDIES ENABLING THE RATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE MOLECULAR/MACROMOLECULAR MLO MA Northwestern University	Ratner Mark	N 36 11/01/93 \$337,354	BURGGRAF 93-NC-102	
THE ELECTROCHEMISTRY OF SODIUM IN ROOM TEMPERATURE CHLOROALUMINATE MOLTEN SALTS Miami University	Niechel Thomas	N 36 11/01/93 \$290,109	WILKES 93-NC-103	
(PURE) HIGH-TEMPERATURE AEROSPACE STRUCTURAL MATERIALS: THE MECHANICS AND MECHANICAL BEHAVIOR OF HIGH-TEMPERATURE I. N. C. Univ of Michigan	Gibala Ronald	N 48 11/01/93 \$3,200,000	A ROSENSTEIN 93-NC-104	\$800,000 01/05/93 \$3,200,000
(PURE) DESIGN AND IN SITU PROCESSING OF METAL-CERAMIC AND CERAMIC- CERAMIC MICROSTRUCTURES, INCLUDING COMPOSITES Cornell University	Sass Stephen	N 48 12/01/93 \$2,360,000	A ROSENSTEIN 93-NC-105	\$590,000 01/03/93 \$2,360,000

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(MUR) THE INFLUENCE OF ALLOYING AND PROCESSING ON THE MICROSTRUCTURE AND PROPERTIES OF MONOLITHIC BETA-NIAL Univ of Florida	Reza Abbaschian	N 48 12/01/93 \$2,360,000	A ROSENSTEIN 93-NC-106	\$590,000 15/04/93 \$2,360,000
HALOGEN AZIDE VISIBLE CHEMICAL LASERS Packwell International, Science Center	D. D.	N 12 13/01/93 \$270,000	A BERMAN 93-NC-107	\$269,435 15/06/93 \$270,000
EXCITED STATE CHEMISTRY OF PE, NF AND NC1 Kansas State University	D. D.	N 12 14/01/93 \$110,000	A BERMAN 93-NC-108	\$110,000 15/05/93 \$110,000
DISPLACIVE TRANSFORMATION IN CERAMICS Univ of Illinois	C. Marvin	N 24 15/01/93 \$999,148	PECHENIK 93-NC-109	
DIELECTRIC STRENGTHS/DENDRITIC POLYMERS Univ of Massachusetts	Frank	N 24 15/01/93 \$300,000	LEE 93-NC-110	
SOL-GEL FRACTAL METAL CLUSTER COMPOSITES FOR NONLINEAR OPTICS Washington State University	Mark	N 36 15/01/93 \$245,242	LEE 93-NC-111	
CHARACTERIZATION OF HIGH TEMPERATURE CREEP MECHANISMS IN ADVANCED CERAMICS BY GRAIN BOUNDARY SLIDING AND CAVITATION MEASUREMENTS Southeast Research Institute	Cneryl Blanchard	N 40 15/01/93 \$620,726	PECHENIK 93-NC-112	
CHEMICAL DYNAMICS STUDIES OF REACTIONS IN SOLIDS Oklahoma State University	Donald Thompson	N 36 21/01/93 \$255,482	BERMAN 93-NC-113	
SYSTEMATIC OPTIMIZATION OF SECOND-ORDER NONLINEAR OPTICAL MATERIALS California Institute of Technology	Seth	N 36 22/01/93 \$315,777	A LEE 93-NC-114	\$148,881 01/05/93 \$225,678

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SINGLE-MODE PLASMON/SOL-GEL OPTICAL WAVEGUIDE MODULATORS FOR PHOTONIC APPLICATIONS Physical Optics Corporation	Ho	N 06 26/01/93 \$61,249	LEE 93-NC-115	
A NEW CLASS OF HIGHLY ORIENTED STABLE POLYMER MATERIALS FOR HIGH- SPEED ELECTRO-OPTIC WAVEGUIDE DEVICES Sigma Lab Inc	Vializis	N 06 26/01/93 \$50,000	LEE 93-NC-116	
(SBR) HIGH-SPEED ELECTRO-OPTIC MODULATORS Tacan Corporation	Rechtel	N 06 26/01/93 \$49,993	A LEE 93-NC-117	\$49,993 15/07/93 \$49,993
(SBR) ORGANOSILICON POLYMERIC NONLINEAR OPTICAL MATERIALS FOR OPTICAL SWITCHING AND MODULATION Molecular Technologies, Inc	Sengupta	N 06 26/01/93 \$49,978	A LEE 93-NC-118	\$49,978 15/07/93 \$49,978
(SBR) DEVELOPMENT OF FERROELECTRIC LIQUID CRYSTALS WITH ENHANCED NONLINEAR OPTICAL PROPERTIES Display Tech, Inc	Arnett	N 06 26/01/93 \$57,110	A LEE 93-NC-119	\$57,110 15/07/93 \$57,110
A NOVEL PROCESS FOR PRODUCTION OF HIGH NLO ORGANIC FILMS Materials & Electrochemical Resch Corp	Loutfy	N 06 26/01/93 \$50,000	LEE 93-NC-120	
(SBR) A NEW CLASS OF NOVEL NONLINEAR OPTICAL MATERIALS FOR REAL- TIME QUASI PHASE-MATCHED SECOND HARMONIC GENERATION & BEAM STEERING Laser Photonics Technology Inc	Chang	N 06 26/01/93 \$49,995	A LEE 93-NC-121	\$49,995 15/07/93 \$49,995
NONLINEAR OPTICAL MATERIALS BASED ON CONJUGATED CONDUCTING POLYMERS Suebs Associates, Inc	Volkmann	N 06 26/01/93 \$50,000	LEE 93-NC-122	
HOT-GUEST THIN FILMS FOR NONLINEAR OPTICAL APPLICATIONS Jet Process Corporation	Halpern	N 06 26/01/93 \$90,349	LEE 93-NC-123	

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(SBR) NOVEL E-O POLYMERS: NLO MATERIALS WITH SUPERIOR TEMPORAL STABILITY Easton-Miller Inc	Parviz Tayebati	N 06 26/01/93 \$69,564	A LEE 93-NC-124	869,564 15/07/93 869,564
MINIATURE DISPLAY FOR HELMETS, SIMULATORS, AND TELEOPERATORS Display Tech, Inc	Mark Hansch	N 06 26/01/93 \$62,472	LEE 93-NC-125	
A MECHANISTIC STUDY OF THE SENSITIVITY AND PERFORMANCE OF NTO New Mexico Institute of Mining and Tech	Jimmie Oakley	N 36 26/01/93 \$959,459	BERMAN 93-NC-126	
SPECTROSCOPY AND THERMAL DECOMPOSITION MECHANISM OF NTO Univ of Utah	Charles Wright	N 36 26/01/93 \$227,985	BERMAN 93-NC-127	
ULTRAFAST LASER SPECTROSCOPY OF SHOCK WAVE DYNAMICS IN EXPLOSIVE MATERIALS STUDIED WITH NANOMETER SPATIAL RESOLUTION: NANOEKSPLOSIONS Univ of Illinois	Dana Dietz	N 36 26/01/93 \$474,000	BERMAN 93-NC-128	
DIFFUSION IN SMALL PORES AND OPTICAL PROPERTIES OF FULLERENE DOPED SOL-GEL GLASS Texas Christian University	T. Waldek Torja	N 36 26/01/93 \$323,476	ERSTFELD 93-NC-129	
NTC - A COMPUTATIONAL STUDY Univ of Alabama	Larry Krahnich	N 36 27/01/93 \$344,868	BERMAN 93-NC-131	
OPTIMIZATION PROBLEMS INVOLVING EXCITED ELECTRONIC STATES: NEW MATERIALS AND REACTION DYNAMICS Univ of Utah	Jack Simons	N 36 27/01/93 \$321,011	BURGGRAB 93-NC-132	
KNOWLEDGE BASE FOR THE DESIGN, SYNTHESIS, AND PROCESSING OF MAXIMUM-PERFORMANCE POLED NLO POLYMERS Northwestern University	Tobin Marks	N 36 27/01/93 \$500,244	LEE 93-NC-134	

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STUDIES OF NTO DECOMPOSITION Yamphis State University	Surkey Theodore	N 36 28/01/93 \$263,554	BERMAN 93-NC-135	
CHEMICAL MECHANISMS OF SHOCK INITIATION OF NTO SRI International	McMillen Donald	N 36 29/01/93 \$452,261	BERMAN 93-NC-137	
SENSITIVE HIGH EXPLOSIVES: SHOCK INDUCED DECOMPOSITION OF ENERGETIC MATERIALS SRI International	Jeffries Jay	N 36 28/01/93 \$450,000	BERMAN 93-NC-138	
ATOMIC LEVEL CONTROL OF ULTRATHIN DIELECTRIC FILM GROWTH ON SILICON SURFACES Univ of Washington	Engel Thomas	N 36 01/02/93 \$421,843	ERSTFELD 93-NC-139	
MICROSTRUCTURAL MECHANISMS OF SOLID STATE HOT SPOT REACTION INITIATION BY SHOCK IN NTO, 3-NITRO-1,2,4-TRIAZOL-5-ONE Naval Surface Weapons Ctr/White Oak Lab	H. Sandusky	N 36 01/02/93 \$688,153	BERMAN 93-NC-140	
ULTRAFAST DYNAMICS OF CHEMICAL REACTIONS California Institute of Technology	Zewail Ahmed	N 36 01/02/93 \$799,475	BERMAN 93-NC-141	
ALGORITHMS FOR FINDING MINIMA AND SADDLE POINTS ON A9 INITIO MOLECULAR POTENTIAL ENERGY SURFACES Wayne State University	Schleigel W. Jernhard	N 36 01/02/93 \$174,838	SURGGRAF 93-NC-142	
TRANSITION STATE SPECTROSCOPY OF VIBRATIONALLY EXCITED ANIONS Univ of California, Berkeley	Newark Daniel	N 36 01/02/93 \$614,029	BERMAN 93-NC-143	
STUDIES OF KINETICS IN SUPERCRITICAL FLUIDS Northeastern University	Weitz Eric	N 36 01/02/93 \$642,510	BERMAN 93-NC-144	

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SELF-ASSEMBLY APPROACHES TO INTRINSICALLY ACENTRIC THIN FILM MLO MATERIALS Northeastern University	Marks Tobin	N 36 01/02/93 \$399,211	LEE 93-NC-145	
FEMTOSECOND NONLINEAR SPECTROSCOPY OF CHEMICAL REACTION AND ENERGY TRANSFER IN SUPERCRITICAL FLUIDS Univ of Pennsylvania	Scherer Norbert	N 36 01/02/93 \$518,750	BERMAN 93-NC-146	
COMPUTATIONALLY EFFICIENT MODELS FOR THE CALCULATION OF STRUCTURES AND PROPERTIES OF MATERIALS Univ of Arkansas	Pulay Peter	N 36 01/02/93 \$203,472	BURGGRAF 93-NC-147	
ROLE OF IONIC INTERMEDIATES IN THE SHOCK - INDUCED DECOMPOSITION OF HFO Michigan Technological University	Mendenhall G. David	N 35 01/02/93 \$444,397	BERMAN 93-NC-148	
DUCTILE PHASE REINFORCED CERAMIC COMPOSITES Case Western Reserve University	Houar A.	N 36 01/02/93 \$600,633	PECHENIK 93-NC-149	
CHEMISTRY OF CATALYSTS FOR ENDOOTHERMIC FUELS Univ of Southern California	Koel Bruce	N 36 03/02/93 \$209,054	ERSTFELD 93-NC-150	
LASER PROSES OF ENERGY TRANSFER AND COLLISION DYNAMICS IN SUPERCRITICAL FLUIDS Columbia University	Lynn George	N 36 03/02/93 \$632,375	BERMAN 93-NC-151	
TRANSITION STATE OPTIMIZATION General Atomics	Taylor Peter	N 36 03/02/93 \$233,943	BURGGRAF 93-NC-152	
DEVELOPMENT OF THE GENETIC ALGORITHM FOR THE GLOBAL OPTIMIZATION OF POLYMERIC MATERIALS Pennsylvania State University	Verz Kenneth	N 36 03/02/93 \$265,699	BURGGRAF 93-NC-153	

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ELECTRO-OPTIC POLYMERS WITH IMPROVED THERMAL STABILITY	Schuerzel	N 36 03/02/93 \$315,000	LEE 93-NC-154	
Battelle Columbus Labs	Robert			
EXPLORING RUGGED ENERGY LANDSCAPE IN LARGE SYSTEMS	Thirumalai	N 36 03/02/93 \$265,694	BURGGRAP 93-NC-155	
Univ of Maryland	Devarajan			
DCM DYE-DOPED POLYMER WAVEGUIDES FOR NOVEL VISIBLE LASER SOURCES AND OPTICAL SIGNAL PROCESSING Laser-Matter Interactions Labs	Mukherjee	N 06 04/02/93 \$58,060	LEE 93-NC-156	
Anadi				
NEW IR TO VISIBLE UPCONVERSION IN DYE-DOPED POLYMER THIN FILMS AND WAVEGUIDES Laser-Matter Interactions Labs	Mukherjee	N 06 04/02/93 \$53,432	LEE 93-NC-157	
Anadi				
NEW HIGH PERFORMANCE GUEST-HOST MATERIALS FOR OPTO-ELECTRONIC APPLICATIONS Maxdee Incorporated	Dang	N 06 04/02/93 \$49,923	LEE 93-NC-158	
Ying				
ORGANIC/POLYMERIC NONLINEAR OPTICAL MATERIALS	Padisic	N 06 04/02/93 \$59,239	LEE 93-NC-159	
Optoelectronic Data Systems	Vasna			
ORGANIC/POLYMERIC NONLINEAR OPTICAL MATERIALS	Lu-Feung	N 06 04/02/93 \$49,948	LEE 93-NC-160	
CAIFA Technology, Inc	Vincent			
A WIDE-BAND, HIGHLY CONJUGATED, NON-CENTROSYMMETRIC (HCNC) GUEST/ HOST NONLINEAR POLYMER Novex Corp	Palca	N 06 04/02/93 \$49,949	LEE 93-NC-161	
David				
HIGH THERMAL STABILITY ELECTRO-OPTIC POLYMERS FOR WAVE GUIDE DEVICES RDI Technology	Yass	N 06 04/02/93 \$50,000	LEE 93-NC-162	
Michael				

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DEVELOPMENT OF EFFICIENT AND UNIVERSAL DERIVATIVE METHODS FOR LARGE SCALE SYSTEMS Polyaomics Research Institute	Kosornicki Andrew	N 36 05/02/93 \$474,196	BURGGRAF 93-NC-163	
ORGANIC XERX-LIQUID-FILLED HOLLOW FIBER AS A NOVEL MULTIMAVE- LENGTH LASER SOURCE FOR LIDAR SENSOR SYSTEMS, COMMUNICATION & SPEC Laser Photonics Technology Inc	Byszard Byszard	N 24 05/02/93 \$742,287	LEE 93-NC-164	
OPTIMIZATION OF GEOMETRIC STRUCTURES OF NEW MATERIALS ON PARALLEL COMPUTERS Univ of California, San Diego	Ware John	N 36 05/02/93 \$151,501	BURGGRAF 93-NC-165	
CHEMICAL REACTIONS INDUCED BY SHEAR-STRAINS IN SOLIDS Univ of Maryland	Armstrong R.	N 36 05/02/93 \$659,000	BERMAN 93-NC-166	
ULTRAFAST NONLINEAR OPTICAL INVESTIGATIONS OF SUPERCRITICAL FLUIDS Stanford University	Fayer Michael	N 36 05/02/93 \$502,575	BERMAN 93-NC-167	
LARGE AMPLITUDE VIBRATIONS IN POLYATOMIC MOLECULE SPECTRA: INTRAMOLECULAR VIBRATIONAL REDISTRIBUTION AND ISOMERIZATION Massachusetts Institute of Technology	Field Robert	N 36 03/02/93 \$513,740	BERMAN 93-NC-168	
STATE-TO-STATE REACTIVE AND COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES Univ of Colorado	Vasselt David	N 36 08/02/93 \$466,217	BERMAN 93-NC-169	
LATERALLY DEFINED NANOSCALE STRUCTURES: FILM GROWTH, CHEMISTRY, AND TRANSPORT Univ of Wisconsin	Legally Max	N 36 10/02/93 \$632,680	ERSTFELD 93-NC-170	
AN EXPERIMENTAL AND COMPUTATIONAL STUDY OF THE CRYSTAL ORIENTATION DEPENDENCE OF SHOCK SENSITIVITY Los Alamos Nat'l Lab--Appl Theor Phys Div	Dick Jerry	N 36 12/02/93 \$300,000	BERMAN 93-NC-171	

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EXPERIMENTAL AND COMPUTATIONAL STUDY OF FAILURE MECHANICS IN NANOPHASE CERAMICS Purdue Research Foundation	Espartero Horacio	N 36 16/02/93 \$250,959	PECHEMIK 93-NC-172	
CHEMICAL PHYSICS OF UNIFORM CYCLIC ETCHING Univ of California, San Diego	Kusner Andre	N 36 16/02/93 \$303,532	ERSTFELD 93-NC-173	
HANDSTRUCTURED THIRD ORDER NLO MATERIALS FOR TRANSPARENCY Isabel Jones	Chandrasekhar D.	N 06 16/02/93 \$49,847	LEE 93-NC-174	
ULTRAFAST LASER MEASUREMENT OF CHEMISTRY AND STRUCTURE OF SHOCKED EXPLOSIVES Atlantic Research Corp	Graham Kenneth	N 36 17/02/93 \$150,435	BERNAM 93-NC-175	
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS Boeing Co	Luhman Thomas	R 12 19/02/93 \$698,635	A ERSTFELD 93-NC-176	\$578,635 15/05/93 \$698,635
ADVANCED CERAMICS FROM LIQUID SOLUTIONS Univ of California, Los Angeles	Mackenzie John	N 36 19/02/93 \$762,301	ERSTFELD 93-NC-177	
TRANSITION RATES AND SADDLE POINTS BY TRANSITION TRAJECTORY MONTE CARLO: THEORY OF DOPANT AND DEFECT KINETICS IN SILICON Boston University	Yaneer R.	N 36 19/02/93 \$330,210	BURGGRAF 93-NC-178	
USE OF BLOCK COPOLYMER AS POLYMER BLEND COMPATIBILIZER Univ of Cincinnati	Roe Theodore	N 36 22/02/93 \$379,841	LEE 93-NC-179	
STATE ASSESSMENT OF NEW AIR FORCE CHEMICALS SRI International	Will Theodore	N 36 22/02/93 \$550,420	MEDEBERG 93-NC-180	

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COMPUTER SIMULATION OF FRACTURE TOUGHNESS IN AEROSPACE MATERIALS Univ of Connecticut	Clapp	N 36 23/02/93 \$547,497	ROSENSTEIN 93-NC-181	
ENVIRONMENTAL FATE OF QUADRICYCLANE AND AMMONIUM DINITRAMIDE IN SOILS AND AT THE ATMOSPHERE-SOIL INTERFACE Univ of Nevada	Miller	N 36 23/02/93 \$517,453	HEDBERG 93-NC-182	
WAVELENGTH-DEPENDENT POLYMERS FOR PHOTONICS AND LASER TECHNOLOGIES Illinois Institute of Technology	Mandal	N 36 24/02/93 \$321,801	LEE 93-NC-183	
1993 GORDON RESEARCH CONFERENCE ON DYNAMICS OF GAS-SURFACE INTERACTIONS Gordon Research Conferences Inc	Motiu	N 12 25/02/93 \$10,800	ERSTFELD 93-NC-184	
APPROACHES FOR OPTIMIZING THE FIRST ELECTRONIC HYPERPOLARIZABILITIES OF CONJUGATED ORGANIC MOLECULES Jet Propulsion Laboratory	Marder	N 12 25/02/93 \$187,000	LEE 93-NC-185	\$187,000 01/10/92 \$187,000
HIGH CONTRAST ORGANIC CRYSTAL OPTICAL MODULATOR FOR PHASED ARRAY ANTENNA AND OPTICAL SIGNAL PROCESSING SYSTEMS Jet Propulsion Laboratory	Marder	N 12 25/02/93 \$125,000	LEE 93-NC-186	\$125,000 01/10/92 \$125,000
EFFECTS OF ADSORPTION/DESORPTION REACTIONS ON THE FATE OF QUAD- RACYCLANE, FLUOROCARBON ETHERS, & AMMONIUM DINITRAMIDE IN SOILS & SED Ohio State Univ Research Foundation	Traina	N 36 03/03/93 \$983,134	HEDBERG 93-NC-187	
MICROBIAL DEGRADATION OF HMX, RDX AND NITROGLYCERIN Ohio State Univ Research Foundation	Tuovinen	N 36 03/03/93 \$364,459	HEDBERG 93-NC-188	
ENERGETIC SPECIES IN CONDENSED OXYGEN SRI International	Mela	N 36 03/03/93 \$450,035	BERMAN 93-NC-189	

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THEORETICAL STUDY OF HYDROGEN FUEL ADDITIVES AND OTHER HEDM SPECIES SRI International	Saxon Roberta	N 36 03/03/93 \$453,434	BERMAN 93-NC-190	
ENVIRONMENTAL FATES AND BIOLOGICAL EFFECTS OF QUADRICYCLANE AND AMMONIUM JINITRAMIDE Univ of Illinois	Larson Richard	N 36 03/03/93 \$994,850	HEDBERG 93-NC-191	
ENVIRONMENTAL FATE STUDIES OF SELECTED HAZARDOUS MATERIALS FOR EXPOSURE AND RISK ASSESSMENTS Univ of Michigan	Siemons Milagros	N 36 03/03/93 \$383,991	HEDBERG 93-NC-192	
PHOTOCHEMICAL AND MICROBIAL REACTIVITY OF QUADRICYCLANE, DINITRAMIDE AND PERFLUOROPOLYETHERS Univ of Wyoming	Sullivan S. Patrick	N 36 03/03/93 \$490,795	HEDBERG 93-NC-193	
1993 GORDON CONFERENCE ON HIGH TEMPERATURE CORROSION Gordon Research Conferences Inc	Salalet James	N 12 04/03/93 \$4,000	D PECHENIK 93-NC-194	
SYNTHESIS OF HIGH-ENERGY DENSITY MATERIALS BASED ON STRAINED-RING COMPOUNDS Univ of Pennsylvania	Dailey, III William	N 36 05/03/93 \$362,614	BERMAN 93-NC-195	
PHOTOCHEMICAL AND MICROBIOLOGICAL DEGRADATION OF HAZARDOUS CHEMICALS IN NATURAL WATER AND SOIL State University of New York - Rsch Fnd	Hassett John	N 36 05/03/93 \$506,372	HEDBERG 93-NC-196	
INFLUENCE OF ALTERNATIVE ELECTRON ACCEPTORS ON ANAEROBIC BIODEGRADATION OF NITRAMINES AND NITRATE ESTERS Rutgers - The State University	Haggblom Max	N 36 05/03/93 \$399,254	HEDBERG 93-NC-197	
PHOTOCHEMICAL DEGRADATION OF FLUOROCARBON ETHERS Univ of Texas Medical Branch	Trileff Norman	N 36 05/03/93 \$523,536	HEDBERG 93-NC-198	

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DEVELOPMENT OF CONTINUOUS VISIBLE CHEMICAL LASER AMPLIFIERS AND OSCILLATORS FROM THE NA-X (CL, BR, I) REACTIONS AND THEIR ANALOGS.. Georgia Tech Research Corporation	Sola James	R 12 05/03/93 \$120,000	A PERRAM 93-MC-199	\$120,000 01/05/93 \$120,000
SOLUTION AND INTERFACIAL CHEMISTRY AND MICROBIOLOGY OF AIR FORCE HAZARDOUS MATERIALS Battelle Pacific Northwest Laboratories	Ainsworth Calvin	N 36 05/03/93 \$1,140,000	HEDBERG 93-MC-200	
BIOREMEDIATION OF NITROAROMATIC EXPLOSIVE COMPOUNDS USING COMBINED ANAEROBIC AND AEROBIC MICROBIAL PROCESSES Milled Signal Inc	Goldberg Ina	N 24 05/03/93 \$299,091	HEDBERG 93-MC-201	
LASER AND FOURIER TRANSFORM SPECTROSCOPY OF NOVEL PROPELLANT MOLECULES Univ of Waterloo	Bernath Peter	N 36 16/03/93 \$224,462	BERMAN 93-MC-202	
SYNTHESIS OF NOVEL, HIGH ENERGY DENSITY COMPOUNDS Rockwell International	Christe K.	N 36 16/03/93 \$635,186	BERMAN 93-MC-203	
EFFECT OF ELECTRON BEAM RADIATION ON ROCKET MOTOR COMPONENTS AND LASER BONDING Univ of Akron	Kalley Frank	N 24 16/03/93 \$122,983	LEE 93-MC-204	
SYNTHESIS & STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC FLUORIDE OXIDIZERS AND RELATED DERIVATIVES McMaster University	Schrodlson J.	N 36 17/03/93 \$848,000	BERMAN 93-MC-205	
THE SYNTHESIS AND CHARACTERIZATION OF NANO-PHASE Y3AL5O12 (YAG) PARTICLES FROM AN AEROSOL OF ORGANO-METALLIC PRECURSORS Brown University	Worse T.	N 36 18/03/93 \$549,109	PECHENIK 93-MC-206	
MASS RESONANCE EXPERIMENTAL INVESTIGATION OF OPTICAL NONLINEARITIES IN CONJUGATED POLYMERS Univ of Central Florida	Stegeman George	N 36 22/03/93 \$149,828	LEE 93-MC-207	

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ASERT93 ELECTROCHEMICAL DEPOSITION OF SEMICONDUCTORS FROM SINGLE-SOURCE PRECURSORS Wake University	Coury Louis	N 36 22/03/93 \$96,362	ERSTFELD 93-NC-208	
ASERT93 STUDENT TRAINING IN ORGANIC SUPERCONDUCTOR RESEARCH Indiana University/Bryan Hall	Montgomery Lawrence	N 36 22/03/93 \$264,847	LEE 93-NC-209	
ASERT93 NOVEL MATERIALS AND DEVICES FROM SELF-ASSEMBLED PERIODIC STRUCTURES Univ of Pittsburgh	Asher Sanford	N 36 22/03/93 \$135,495	ERSTFELD 93-NC-210	
ASERT93 A STUDY OF CARBON-CARBON INTERFACES BY USING STM/AFM Massachusetts Institute of Technology	Magyar Janez	N 36 22/03/93 \$156,632	PECHENIK 93-NC-211	
ASERT93 ENHANCED NONLINEAR OPTICAL PROCESSES Univ of Pennsylvania	Garito Anthony	N 36 23/03/93 \$278,237	LEE 93-NC-212	
ASERT93 KINETICS AND SPECTROSCOPY OF PF AND ASF MOLECULES Kansas State University	Setser Don	N 36 23/03/93 \$81,092	BERMAN 93-NC-213	
ASERT93 ALTERNATIVE ETCHANTS FOR SURFACE DEFECT CONTROL ON TASC100 Univ of California, San Diego	Kunzel Andrew	N 36 23/03/93 \$126,792	ERSTFELD 93-NC-214	
ASERT93 MAGNETIC FIELD EFFECTS ON PHASE TRANSITIONS, TEXTURE AND DEFECTS IN CHOLESTERIC LIQUID CRYSTALLINE POLYMER THIN FILMS Massachusetts Institute of Technology	Thomas Edwin	N 36 23/03/93 \$139,327	LEE 93-NC-215	
ASERT93 ENVIRONMENTAL EFFECTS ON HIGH DENSITY MATERIALS Univ of Georgia	Schaefer III Henry	N 36 23/03/93 \$264,748	BURGGRAF 93-NC-216	

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ASERT93 NEW MATERIALS FOR NONLINEAR OPTICAL DEVICES Univ of California, Irvine	Shea Kenneth	N 36 23/03/93 \$130,638	LEE 93-NC-217	
ASERT93 NONLINEAR OPTICAL RESPONSE OF CONFINED EXCITONS IN MOLECULAR AND SEMICONDUCTOR Univ of Rochester	Mukamel Shaul	N 36 23/03/93 \$298,925	BURGGRAB 93-NC-218	
ASERT93 NEW ROUTES TO FLUORINATED LIGANDS AND POLYMERS Dartmouth College	Hughes Russell	N 36 23/03/93 \$151,449	HEDBERG 93-NC-219	
ASERT93 INVESTIGATION OF INTERACTIONS INVOLVING BORON ATOMS Johns Hopkins University	Dardigian Paul	N 36 23/03/93 \$91,840	BERMAN 93-NC-220	
ASERT93 SYNTHESIS OF NEW HIGH-ENERGY FUELS BASED ON STRAINED-RING HYDROCARBONS Univ of Pennsylvania	Galley William	N 36 23/03/93 \$286,560	BERMAN 93-NC-221	
ASERT93 ALL-OPTICAL POLYMER FIBER DEVICES Washington State University	Kuzyk Mark	N 36 23/03/93 \$115,518	LEE 93-NC-222	
ASERT93 FEMTOSECOND DYNAMICS OF EXCITONS IN SEMICONDUCTOR QUANTUM DOTS Univ of Florida	Simmons Joseph	N 36 23/03/93 \$105,356	ERSTFELD 93-NC-223	
ASERT93 CREEP BEHAVIOR OF ORIENTED REFRACTORY METAL COMPOSITES Fright State University	Weiss Isaac	N 36 23/03/93 \$77,101	ROSENSTEIN 93-NC-224	
ASERT93 BASIC STUDIES ON LUBRICATION SCHEMES FOR SILICON NITRIDE- 4-50 STEEL HYBRID BEARING SYSTEMS FOR ADVANCED TURBINE ENGINES Univ of Florida	Adair James	N 36 23/03/93 \$150,000	PECHENIK 93-NC-225	

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IASERT93 NEW HIGH-PRESSURE DIAGNOSTIC TECHNIQUE Stanford University	Zare	N 36 23/03/93 \$102,846	BERMAN 93-NC-226	
IASERT93 FUNDAMENTAL STUDIES IN BIOMINERALIZATION Univ of Washington	Sarikaya	N 36 23/03/93 \$117,029	HEDBERG 93-NC-227	
IASERT93 SYNTHESIS OF PAN AND PITCH DERIVATIVES CONTAINING BORON FOR HIGH THERMAL OXIDATIVE STABLE CARBON Pennsylvania State University	Chung	N 36 23/03/93 \$109,117	ERSTFELD 93-NC-228	
IASERT93 NEW FLUOROALKYL AND FLUOROARYL COMPOUNDS AS STABLE FLUIDS OR FLUID PRECURSORS University of Idaho	Shreeve	N 36 23/03/93 \$196,114	HEDBERG 93-NC-229	
IASERT93 REACTIVE ION SCATTERING AND DEPOSITION: THE ROLE OF MULTI-CHANNEL CHARGE Cornell University	Cooper	N 36 23/03/93 \$117,035	ERSTFELD 93-NC-230	
IASERT93 STATE-TO-STATE COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES Univ of Colorado	Nezbit	N 36 23/03/93 \$121,923	BERMAN 93-NC-231	
IASERT93 INTERFACE STUDIES IN CERAMIC MATRIX COMPOSITES City College - CUNY	Delisle	N 36 23/03/93 \$116,559	PECHENIK 93-NC-232	
IASERT93 NOVEL SURFACE TREATMENTS FOR SIC FIBERS IN GLASS-CERAMIC COMPOSITES Brown University	Mutt	N 36 23/03/93 \$252,367	PECHENIK 93-NC-233	
IASERT93 MICROSTRUCTURE AND RELIABILITY OF OXIDE-BASED CERAMIC COMPOSITES Carnegie-Mellon University	Readey	N 36 23/03/93 \$258,342	PECHENIK 93-NC-234	

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ASERT93 CRACK PATH IN METAL SINGLE CRYSTAL Univ of Florida	Ebrahimi Fereshteh	N 36 23/03/93 \$102,301	ROSENSTEIN 93-NC-235	
ASERT93 STUDIES OF WEAKLY BOUND COMPLEXES AND REACTIVE INTERMEDIATES VIA THRESHOLD PHOTOATTACHMENT SPECTROSCOPY Univ of California, Berkeley	Daniel	N 36 23/03/93 \$113,787	BERMAN 93-NC-236	
ASERT93 BLOCK COPOLYMER THIN FILMS Univ of Minnesota	Gates Frank	N 36 24/03/93 \$134,284	LEE 93-NC-237	
ASERT93 NUCLEATION DURING CHEMICAL VAPOUR DEPOSITION ON OXIDE SUBSTRATES Brown University	Sneldon Brian	N 36 24/03/93 \$175,427	PECHENIK 93-NC-238	
ASERT93 POLYMERIC LASER DIODES: A NEW AND NOVEL LIGHT SOURCE Univ of Arizona	Oeyghambarian Nasser	N 36 24/03/93 \$90,000	LEE 93-NC-239	
ASERT93 INVESTIGATION OF NON-LINEAR OPTICAL CHARACTERISTICS OF THIN FILMS Alabama A&M University	Venkateswarlu Putcha	N 36 24/03/93 \$120,942	LEE 93-NC-240	
ASERT93 AN ASERT PROPOSAL FOR THE DEVELOPMENT OF ADVANCED PHOTONIC MATERIALS Univ of Southern California	Dalton Larry	N 36 24/03/93 \$393,265	LEE 93-NC-241	
ASERT93 TOUGHENING MECHANISMS IN VARIABLE INTERFACE STRENGTH COMPOSITES Univ of Illinois	Kriven Walter	N 36 24/03/93 \$349,965	PECHENIK 93-NC-242	
ASERT93 TRACE ELEMENT ANALYSIS FOR IMPENDING FAILURE USING LASER ABLATION & INDUCTIVELY COUPLED PLASMA OF RESONANCE IONIZATION SPEC Univ of Florida	Paul Halloway	N 36 24/03/93 \$150,000	PECHENIK 93-NC-243	

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IASERT93 PHOTONICS AND NONLINEAR OPTICS WITH MOLECULAR AND POLYMERIC MATERIALS State University of New York	Paras	N 36 24/03/93 \$171,201	LEE 93-NC-244	
IASERT93 IN-SITU JOINING OF ORGANIC POLYMERS FOR OPTICAL WAVEGUIDES AND DEVICES Washington University	Krennavek Robert	N 36 24/03/93 \$117,291	LEE 93-NC-245	
IASERT93 MICROMECHANISMS OF CRACK GROWTH IN LAMINATED INTERMETALLIC COMPOSITE MICROSTRUCTURES Univ of California, Berkeley	Ritchie Robert	N 36 24/03/93 \$150,000	ROSENSTEIN 93-NC-246	
IASERT93 THEORETICAL DYNAMICS STUDIES OF CHEMICAL REACTIONS IN SOLIDS Oklahoma State University	Thompson Donald	N 36 24/03/93 \$157,505	BURGGRAF 93-NC-247	
IASERT93 HIGH TEMPERATURE STRUCTURAL MATERIALS-CREEP AND FRACTURE PROPERTIES OF LAMINATED METAL COMPOSITES Univ of California, Davis	Auknerjee Amiya	N 36 24/03/93 \$148,697	ROSENSTEIN 93-NC-248	
IASERT93 HIGH PERFORMANCE METAL FILMS: PREPARATION AND CHARACTERIZATION Univ of Cincinnati	Hubbard Arthur	N 36 24/03/93 \$100,285	WILKES 93-NC-249	
IASERT93 ADJUNCTATION AWARD FOR SURFACE SCIENCE RESEARCH TRAINING Univ of Chicago	Tibener Steven	N 36 24/03/93 \$125,169	ERSTFELD 93-NC-250	
IASERT93 INORGANIC-ORGANIC MOLECULAR BONDING IN POROUS MATRICES Univ of Florida	Hench Larry	N 36 24/03/93 \$88,600	ERSTFELD 93-NC-251	
IASERT93 SUPERCOMPUTER MODELING AND DESIGN OF MATERIALS Univ of Pittsburgh	Coalson Rob	N 36 24/03/93 \$139,165	ROSENSTEIN 93-NC-252	

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ASERT93 TRANSPORT AND RELAXATION OF LUBRICANT FLUIDS AT HIGH PRESSURE Univ of Illinois	Jones Jill	N 36 24/03/93 \$92,177	ERSTFELD 93-NC-253	
ASERT93 BIO-MIMETIC MINERALIZATION OF BACTERIA Univ of Arizona	Calvert Paul	N 36 24/03/93 \$148,391	HEDBERG 93-NC-254	
ASERT93 PREPARATION OF POLYMERIC ORGANIC SUPERCONDUCTOR MODEL COMPOUNDS Northern Illinois University	Scangler Charles	N 36 24/03/93 \$195,571	LEE 93-NC-255	
ASERT93 WHAT IS THE SOURCE OF ELECTRONIC ANHARMONICITY? Univ of Pittsburgh	Beratan David	N 36 24/03/93 \$132,830	LEE 93-NC-256	
ASERT93 GRADUATE AND UNDERGRADUATE STUDENT SUPPORT TO STUDY PLASMA ION MOLECULE CHEMISTRY Univ of Utah	Armentrout Peter	N 36 24/03/93 \$77,742	BERMAN 93-NC-257	
OPTIMIZATION OF SECOND ORDER NLO MATERIALS California Institute of Technology	Warder Sath	N 12 24/03/93 \$57,000	A LEE 93-NC-258	\$57,000 01/05/93 \$57,000
ASERT93 COMPUTATIONAL AND EXPERIMENTAL STUDIES OF INITIATION PROCESSES IN PROPELLANTS AND EXPLOSIVES New Mexico Institute of Mining and Tech	Williams Phartlis	N 36 26/03/93 \$263,277	BERMAN 93-NC-259	
CSPIR MULTIFUNCTIONAL POLYMERS Tacan Corporation	Salour Michael	N 24 26/03/93 \$500,000	LEE 93-NC-260	
CSBP PROPULSION AND PROPELLANTS FOR ANTI-SATELLITE (ASAT) = Luoroches INC	Baus Kurt	N 24 26/03/93 \$499,984	HEDBERG 93-NC-261	

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ASERT93 INVOLVING MINORITIES IN UNDERGRADUATE MATERIALS RESEARCH Univ of Pittsburgh	Pratt David	N 36 26/03/93 \$29,400	ROSENSTEIN 93-MC-262	\$100,000 01/07/93 \$300,000
IR/AFM SCANNING TUNNELING MICROSCOPY STUDIES OF THE MORPHOLOGY AND KINETIC PATHWAYS FOR CORROSION REACTIONS OF STRESSED MATERIALS Univ of Chicago	Sabener Steven	N 36 26/03/93 \$300,000	A ERSTFELD 93-MC-263	\$100,000 01/07/93 \$300,000
ASERT93 THEORETICAL STUDIES OF REACTION SURFACES Iowa State University	Gordon Mark	N 36 29/03/93 \$119,310	BURGGRAF 93-MC-264	
ASERT93 VIBRATIONAL SPECTROSCOPY AND FEMTOSECOND DYNAMICS AT LIQUID/SOLID INTERFACES Columbia University	Eisenthal Kenneth	N 36 29/03/93 \$311,300	HEDBERG 93-MC-265	
CSIR) SYNTHESIS AND THERMAL STABILITY OF NLO CHROMOPHORES InTech System Research Inc.	Soni Son	N 24 29/03/93 \$755,934	LEE 93-MC-266	\$69,949 01/07/93 \$69,949
SILICA FRESNEL LENS FOR LASER COMMUNICATIONS Cal-Tech, Inc.	Vogues Jean-Luc	N 06 29/03/93 \$68,949	A LEE 93-MC-267	\$69,949 01/07/93 \$69,949
NOVEL SOL-GEL DEPOSITION FOR REPAIR OF CONDUCTING PATHS IN POLYCEAMIC SYSTEMS James Associates, Inc	Jany Guang-May	N 06 29/03/93 \$50,000	A LEE 93-MC-268	\$50,000 01/07/93 \$50,000
POLYMER-BASED ALL-OPTIC RECONFIGURABLE INTERCONNECTS Physical Optics Corporation	Jansson Tomasz	N 06 29/03/93 \$61,139	A LEE 93-MC-269	\$61,139 01/07/93 \$61,139
STABILIZED HYDROGEN RINGS Univ of Carleton	Wright J.	N 24 30/03/93 \$130,828	BERMAN 93-MC-270	

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PROPOSAL TO PRODUCE NOVEL, TRANSPARENT RADIATION HARD, LOW REFRACTIVE INDEX POLYMERS Optical Polymer Research	Schuman Werner	N 06 30/03/93 \$50,000	A LEE 93-NC-271	\$50,000 01/07/93 \$50,000
LASER/93 PREPARATION OF HIGH-TEMPERATURE POLYMERS FOR SOL-GEL TECHNOLOGY Univ of Cincinnati	Mark James	N 36 30/03/93 \$135,713	LEE 93-NC-272	
LASER/93 ELECTROPLATING OF REFRACTORY METALS USING HALOALUMINATE AETLS Univ of Tennessee	Manantov Gleb	N 36 30/03/93 \$71,640	WILKES 93-NC-273	
CLUSTER MODELS OF METAL-SEEDED ENERGETIC MATERIALS Univ of Georgia	Duncan Michael	N 36 30/03/93 \$272,052	BERMAN 93-NC-274	
A STUDY OF THE SYNTHESIS SURFACE CHEMISTRY AND STRUCTURE OF SILICON NITRIDE-BASED MATERIALS BY NUCLEAR MAGNETIC RESONANCE Colorado State University	Yaciel Gary	N 36 31/03/93 \$999,997	D BURGGRAF 93-NC-275	
HIGH ENERGY DENSITY SYSTEMS IN CRYOGENIC MEDIA: THE PRODUCTION AND DYNAMICS OF REACTIVE SPECIES Northwestern University	Waltz Eric	N 36 31/03/93 \$444,621	BERMAN 93-NC-276	

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DETECTION OF PLASMA CLUSTERS WITH THIN MAGNETIC FILMS - TECHNICAL FEASIBILITY STUDY European Office of Aerospace R&D	Hackett Kirk	N 09 04/01/93 \$25,000	A BARKER 93-NE-157	\$0 15/01/93 \$25,000
ORGANIZATION AND CONDUCT OF THE NINTH AMERICAN CONFERENCE ON CRYST AL GROWTH (ACCG-93) Massachusetts Institute of Technology	Yitz August	N 12 13/01/93 \$3,000	A WITT 93-NE-160	\$3,000 15/07/93 \$3,000
SYMPOSIUM 3, SILICON-BASED OPTOELECTRONIC MATERIALS Materials Research Society	Ballance John	N 12 15/01/93 \$2,000	A POMRENKE 93-NE-161	\$2,000 15/06/93 \$2,000
PARALLEL ERROR CODING/DECODING FOR HIGHLY PARALLEL MEMORIES Univ of Arizona	Welfeld Mark	N 36 25/01/93 \$274,348	CRAIG 93-NE-162	
PARALLEL HOLOGRAPHIC RECORDING AND READOUT USING ULTRASHORT LIGHT PULSES Jardue Research Foundation	Weiner Andrew	N 36 25/01/93 \$470,739	CRAIG 93-NE-163	
EXACT PHYSICAL MODELS AND METHODS FOR STABILIZATION AND CONTROL OF REFLECTION-INDUCED INSTABILITIES IN SEMICONDUCTOR LASERS Univ of Arizona	Moloney J.	N 30 25/01/93 \$268,617	A CRAIG 93-NE-164	\$69,990 15/05/93 \$248,617
LOCAL AREA NETWORK COMMUNICATIONS BASED ON AN OPTICAL SOLITON TECHNOLOGY Univ of Arizona	Yewell A.	N 36 25/01/93 \$7	CRAIG 93-NE-165	
NOVEL SOLID-BASED MAGNETIC FIELD MEASUREMENT TECHNIQUE, WITH SHEET CURRENT EXCITATION, FOR AEROSPACE APPLICATIONS Physical Research Inc.	Fitzpatrick Gerald	N 06 25/01/93 \$49,362	WEINSTOCK 93-NE-166	
COMPACT HIGH TEMPERATURE SOLID SYSTEM USED FOR NONDESTRUCTIVE INSPECTION OF AIRCRAFT Conductus, Inc.	Lonjo, Jr Joseph	N 06 25/01/93 \$74,999	WEINSTOCK 93-NE-167	

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4TS SQUID MAGNETOMETRY FOR NDI OF AIRCRAFT Pristan Technologies	Paulson Douglas	N 09 25/01/93 \$74,968	WEINSTOCK 93-NE-168	\$73,941 01/07/93 \$73,941
HIGH TEMPERATURE SQUID MICROPROBES FOR EDDY CURRENT EVALUATION OF AIRCRAFTS SDM Technology Inc	Padney Walter	N 06 25/01/93 \$73,941	A WEINSTOCK 93-NE-169	\$73,941 01/07/93 \$73,941
A PRACTICAL 4TS SQUID MAGNETOMETRY SYSTEM FOR NDI OF AIRCRAFT Quantum Magnetics, Inc.	A. A.	N 06 25/01/93 \$49,727	A WEINSTOCK 93-NE-170	\$49,727 01/07/93 \$49,727
4TS FIRST-DERIVATIVE GRADIOMETER FOR NON-DESTRUCTIVE INSPECTION OF AIRCRAFT Electro-Optek Corporation	Jines Eugene	N 06 25/01/93 \$49,952	WEINSTOCK 93-NE-171	
DYNAMIC FOCUSING MIRROR ARRAY FOR WRITING AND READING OF 3-D MEMORIES Datron Systems Inc	Hubbard, Jr. James	N 06 25/01/93 \$59,984	CRAIG 93-NE-172	
PERSISTENT SPECTRAL HOLE BURNING IN NOVEL SOL-GEL COMPOSITES Laser Photonics Technology Inc	Cassstevens Martin	N 06 26/01/93 \$49,999	CRAIG 93-NE-173	
(SAPR-93) CVD DIAMOND DOPED WITH TRANSITION METALS AND RARE EARTHS FOR PERSISTENT SPECTRAL HOLE BURNING MEMORY APPLICATIONS CRYSTALLUM	Phillips William	N 06 25/01/93 \$69,909	A CRAIG 93-NE-174	\$69,909 01/06/93 \$69,909
RARE EARTH DOPED III-V SEMICONDUCTOR FOR OPTOELECTRONICS Astrelux	Chang Giu	N 06 26/01/93 \$65,000	POMRENKE 93-NE-175	
RARE EARTH DOPED SINGLE CRYSTAL GAN FOR LIGHT EMISSION APA Optics Inc	Khari M. Asif	N 06 26/01/93 \$49,986	POMRENKE 93-NE-176	

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(CR)ACS)/g(A)CS) SUPERLATTICE INFRARED DETECTOR BY CHEMICAL VAPOR DEPOSITION Spire Corp.	Greenwald Anton	N 06 26/01/93 \$49,615	A POMRENKE 93-NE-177	\$49,615 01/07/93 \$49,615
(S9IR-93) VISIBLE AND INFRARED (1.54 UM) LED BASED ON EX-DOPED POPOUS SI Spire Corp.	Nauvar Fereydoon	N 06 26/01/93 \$72,746	A POMRENKE 93-NE-178	\$72,746 01/07/93 \$72,746
JET VAPOR DEPOSITION OF RARE EARTH DOPED SCID AND SCIDC LAYERS				
Jet Process Corporation	Halpern Gret	N 06 26/01/93 \$89,787	POMRENKE 93-NE-180	
RARE EARTH DOPED III-V SEMICONDUCTORS FOR OPTOELECTRONICS				
Microtronics Associates, Inc.	Coon Victoria	N 06 26/01/93 \$59,846	POMRENKE 93-NE-181	
LONG WAVELENGTH INFRARED DETECTORS, UTILIZING HOLES IN MULTIPLE QUANTUM WELL STRUCTURES Cytron Ltd	Sweeny Mark	N 06 26/01/93 \$50,000	POMRENKE 93-NE-182	
MOCVD-PRODUCED IC(A)CS)/G(A)IC(N)SC(A) STRAINED LAYER SUPERLATTICE FOR INFRARED DETECTION Spire Corporation	Karan Vasser	N 06 26/01/93 \$49,821	POMRENKE 93-NE-183	
FAR INFRARED SUPERLATTICE DETECTORS				
Materials Technologies Corporation	Pike John	N 06 26/01/93 \$63,142	POMRENKE 93-NE-184	
LOW NOISE QUANTUM WELL INFRARED DETECTORS				
Materials Technologies Corporation	Pike John	N 06 26/01/93 \$63,720	POMRENKE 93-NE-185	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT				
Scientific Research Associates, Inc.	Grubin Harold	N 06 26/01/93 \$62,687	POMRENKE 93-NE-186	

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DESIGN OF N-TYPE SCI)-SCI)/GCE) QUANTUM WELL STRUCTURES FOR PHOTODETECTION BEYOND 12 MICRONS Microtronics Associates, Inc.	Shadrin Valeriy	N 06 26/01/93 \$55,049	POMRENKE 93-NE-187	
INVAS/INXGAL-XS9 STRAINED LAYER SUPERLATTICE INFRARED DETECTORS SENSITIVE TO WAVELENGTHS BEYOND 12 UM Structured Materials Industries (SMI)	Sun G.	N 06 26/01/93 \$49,999	POMRENKE 93-NE-188	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Physical Optics Corporation	Shin Robert	N 06 26/01/93 \$61,246	POMRENKE 93-NE-189	
QUANTUM WELL STRUCTURES FOR TUNABLE IR DETECTORS Electro-Optek Corporation	Huang C.	N 06 26/01/93 \$49,977	POMRENKE 93-NE-190	
SUPERLATTICE LWIR DETECTOR ARRAY Electro-Optek Corporation	Chan William	N 06 26/01/93 \$49,988	POMRENKE 93-NE-191	
HIGH SENSITIVITY OPTICAL MAGNETOMETER FOR NON-DESTRUCTIVE INSPECTION OF AIRCRAFT STRUCTURES Data Inc	Lintz Andrew	N 06 26/01/93 \$49,930	WEINSTOCK 93-NE-192	
IMPROVED SUBSTRATES FOR SCAM AND ACLM FILMS Linares Management Assoc. Inc. (LMAINC)	Linares Robert	N 06 27/01/93 \$55,900	WITT 93-NE-193	
HIGH TEMPERATURE ACLD(GA)P/GCA)P HETEROJUNCTION BIPOLAR TRANSISTOR BY PLANAR PROCESSING Astro Power Division/Astrosystems, Inc.	DiNetta Louis	N 06 27/01/93 \$84,768	WITT 93-NE-194	
SCID EPITAXY ON BUFFERED SCID FOR HIGH-TEMPERATURE ELECTRONICS Electro-Optek Corporation	Chou Y.	N 06 27/01/93 \$49,998	WITT 93-NE-195	

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DIAMOND HIGH TEMPERATURE POWER TRANSISTORS Crystallume	Landstrass	N 06 27/01/93 \$69,332	WITT 93-NE-196	
IRON PHOSPHIDE SEMICONDUCTOR DEVICES FOR HIGH TEMPERATURE ELECTRONICS Radiation Monitoring Devices, Inc.	Squillante	N 06 27/01/93 \$58,585	WITT 93-NE-197	
A PHOTOTRANSISTOR BASED ON Ga(N-AL)X(GA)1-XN HETEROSTRUCTURE IPA Optics Inc	Khan	N 12 27/01/93 \$49,997	A WITT 93-NE-198	\$49,997 15/07/93 \$49,997
GROWTH AND CHARACTERIZATION OF WIDE BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS Thin Film Concept	Weisman	N 06 27/01/93 \$49,956	WITT 93-NE-199	
APPLICATION OF ZINC BLEND GALLIUM NITRIDE TO HIGH TEMPERATURE ELECTRONICS Capin Corporation	Shastri	N 06 27/01/93 \$50,000	WITT 93-NE-200	
LOW TEMPERATURE MBE GROWTH OF SILICON CARBIDE Advanced Technology Materials Inc.	Waller	N 06 27/01/93 \$50,000	WITT 93-NE-201	
BUBBLE SILICON CARBIDE SUBSTRATES Advanced Technology Materials Inc.	Yoo	N 06 27/01/93 \$50,000	WITT 93-NE-202	
Ga(N-AL)S(N) HEMT GROWN BY TURBO-DISC MULTI-MAYER MOCVD/ALE HYPERIO TECHNIQUE Escore Corporation	Liu	N 06 27/01/93 \$53,985	WITT 93-NE-203	
LOW TEMPERATURE GROWTH OF EPITAXIAL GALLIUM NITRIDE Briarrose Corp. of America	Jagannathan	N 06 27/01/93 \$50,000	WITT 93-NE-204	

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HIGH TEMPERATURE TABLE SILICIDE CONTACTS TO SILICON CARBIDE Advanced Technology Materials Inc.	Tischler Michael	N 06 27/01/93 \$50,000	WITT 93-NE-205	
DEVELOPMENT OF THE EPITAXIAL GROWTH OF ZINC OXIDE FOR HIGH TEMPERATURE JUNCTION TRANSISTORS Spire Corp.	Maruska H. Paul	N 06 27/01/93 \$60,034	WITT 93-NE-206	
EPITAXIAL GROWTH OF DIAMOND FILMS USING LOW ENERGY C-ION BEAM SURFACE MODIFICATIONS Structured Materials Industries (SMI)	Kim S. I.	N 06 27/01/93 \$49,993	WITT 93-NE-207	
DIAMOND HIGH TEMPERATURE POWER TRANSISTORS Crystallume	Landstrass Maurice	N 06 27/01/93 \$69,932	WITT 93-NE-208	
OPTICAL AND ELECTRONIC PROPERTIES OF SiC(SiC) MATERIALS AND STRUCTURES IBM Thomas J. Watson Research Center	Northrop Gregory	N 36 27/01/93 \$631,388	POMRENKE 93-NE-210	
DOPED CBN FILM DEPOSITION BY LASER ABLATION AND RELATED TECHNIQUES Excel Superconductor, Inc	Ganapati L	N 06 28/01/93 \$50,000	WITT 93-NE-211	
EPITAXIAL GROWTH OF HIGH BANDGAP III-V SEMICONDUCTOR FOR NEW ELECTRONIC MATERIALS Spectra Diode Laboratories, Inc	Nye Derek	N 06 28/01/93 \$49,764	WITT 93-NE-212	
(SBR-93) DEVELOPMENT OF MATERIALS FOR SPECTRAL HOLE BURNING APPLICATIONS Crystal Systems, Inc	Khattak Chandra	N 06 28/01/93 \$50,000	A CRAIG 93-NE-213	\$50,000 01/06/93 \$50,000
SUPPORT FOR OPTICAL CIRCUITRY COOPERATIVE Joly of Arizona	Peyghambarian Nasser	N 12 04/02/93 \$50,000	A CRAIG 93-NE-214	\$50,000 15/02/93 \$50,000

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RESEARCH ON OPTOELECTRONIC SYSTEMS AND DEVICES Univ of Colorado	Catney	N 12 04/02/93 \$50,000	A CRAIG 93-NE-215	\$50,000 15/02/93 \$50,000
DEVELOPMENT OF A HTS SQUID GRADIENTER FOR THE DETECTION OF SUBSURFACE STRUCTURAL DEFECTS IN AIRCRAFT Midwest Superconductivity, Inc	Chester	N 06 05/02/93 \$49,960	WEINSTOCK 93-NE-216	
DEVELOPMENT OF A HTS SQUID MAGNETOMETER FOR NONDESTRUCTIVE EVALUATION OF AIRCRAFT STRUCTURE WNR Technologies, Inc	Paugh	N 06 05/02/93 \$75,650	WEINSTOCK 93-NE-217	
(SBR-93) MATERIALS FOR SPECTRAL HOLE BURNING RESEARCH Scientific Materials Corp	Robert	N 06 05/02/93 \$50,000	A CRAIG 93-NE-218	\$50,000 01/06/93 \$50,000
NEW MATERIALS FOR MEMORY APPLICATIONS AALEM Associates	Lampecki	N 06 05/02/93 \$50,000	CRAIG 93-NE-219	
NORMAL INCIDENCE INTERSUBBAND PHOTOABSORPTION IN INAS/GASB QUANTUM WELL INFRARED PHOTODETECTOR STRUCTURES 224 MicroFab Inc	Chen	N 06 05/02/93 \$74,834	POMRENKE 93-NE-220	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Vetrologic, Inc	Johnson	N 06 05/02/93 \$50,000	POMRENKE 93-NE-221	
QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Innovative Technology Enterprise	Karunasiri	N 06 05/02/93 \$49,510	POMRENKE 93-NE-222	
(SBR PHASE I) INFRARED DETECTORS BASED ON SI/SIZE SUPERLATTICES AND SILICIDE/SIZE SCHOTTKY BARRIERS OPERATING BEYOND 12 MICRONS 3D-LD	V.S.	N 06 05/02/93 \$49,820	A POMRENKE 93-NE-223	\$49,820 01/07/93 \$49,820

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FABRICATION OF HIGH-DETECTIVITY FAR INFRARED () WITH MBE GROWN INAsX131-X/InAs0.45Sb0.6 SSL ON InSb 4L Vacuum & Semiconductor Corp	Lu	N 06 05/02/93 \$45,884	POMRENKE 93-NE-224	
CSIR PHASE I) QUANTUM WELL AND SUPERLATTICE IR DETECTOR DEVELOPMENT Superior Vacuum Technology, Inc	Chow	N 06 05/02/93 \$49,663	A POMRENKE 93-NE-225	\$49,663 01/07/93 \$49,663
RARE EARTH DOPED DIAMOND SEMICONDUCTORS S.I. Diamond Technologies, Inc	Jamison	N 06 05/02/93 \$51,161	POMRENKE 93-NE-226	
EPITAXIAL GROWTH OF HIGH TEMPERATURE, ELECTRONIC GRADE ALN 4pollar (J A) Company	Meyer	N 06 05/02/93 \$50,000	WITT 93-NE-227	
WIDE BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS Optical Concepts, Inc	Robinson	N 06 05/02/93 \$49,998	WITT 93-NE-228	
LARGE AREA SINGLE CRYSTAL CUBIC 4000M NITRIDE BROWTH FOR DEVICE DEVELOPMENT S.I. Diamond Technologies, Inc	Jamison	N 06 05/02/93 \$51,554	WITT 93-NE-229	
NOVEL METHOD FOR GROWTH OF P/N TYPE EPITAXIAL GAN FOR HIGH TEMPERATURE ELECTRONIC DEVICE APPLICATIONS VZ Applied Technologies	Norris	N 06 05/02/93 \$64,903	A WITT 93-NE-230	\$64,903 15/07/93 \$64,903
P-TYPE DOPANTS FOR SILICON CARBIDE SEMICONDUCTORS Implant Sciences Corporation	Bunger	N 06 05/02/93 \$73,393	WITT 93-NE-231	
WIDE BANDGAP SEMICONDUCTORS FOR HIGH TEMPERATURE ELECTRONICS ALXGAI-XN GROWTH BY JET ASSISTED EPITAXY FOR HIGH TEMP ELEC Superior Vacuum Technology, Inc	Van Hove	N 06 05/02/93 \$49,116	WITT 93-NE-232	

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DEVELOPMENT OF N-CHANNEL, INVERSION-MODE MOSFETS IN BETA-SIC	Rausaugh	N 06 05/02/93 \$50,000	MITT 93-NE-233	
Speldyn Corporation	Scott			
ABSTRACTION OF HIGH TEMPERATURE MOSFET USING THE GROWN C60/ALOX	Lu	N 06 05/02/93 \$45,884	MITT 93-NE-234	
ILMS				
IL Vacuum & Semiconductor Corp	Hamilton			
PCVD AND ALE GROWTH OF B-V SEMICONDUCTORS FOR HIGH TEMPERATURE	Nauman	N 06 05/02/93 \$65,950	MITT 93-NE-235	
ELECTRONICS				
Light Edge	Ahmed			
THE NON-LINEAR OPTICS OF BESSEL, BESSEL-GAUSS & BESSEL-LIKE BEAMS	Herman	N 24 08/02/93 \$91,187	D SCHLOSSER 93-NE-236	
Pennsylvania State University	Roger			
DEVELOPMENT AND APPLICATIONS OF CASCADED GAAS-BASED OEIC SIGNAL	Warde	N 36 08/02/93 \$916,486	CRAIG 93-NE-237	
PROCESSORS				
Massachusetts Institute of Technology	Cardinal			
SYNTHESIS AND CHARACTERIZATION OF CUD-BASED SUPERCONDUCTORS WITH	Wenjer	N 36 19/02/93 \$150,000	A WEINSTOCK 93-NE-238	\$50,000 01/06/93 \$150,001
HIGH TRANSITION TEMPERATURES				
Wayne State University	Lowell			
SEARCH FOR HIGHER TEMPERATURE SUPERCONDUCTORS	Torrance	N 36 19/02/93 \$300,000	A WEINSTOCK 93-NE-239	\$100,000 01/06/93 \$300,000
IBM Almaden Research Center	Jerry			
SEARCH FOR HIGHER-TEMPERATURE SUPERCONDUCTORS BY NOVEL APPROACHES	Chu	N 36 22/02/93 \$300,000	A WEINSTOCK 93-NE-240	\$100,000 01/06/93 \$300,000
Univ of Houston	C			
DISCOVERING SUPERCONDUCTING MATERIALS AT HIGH TEMPERATURES	Disalvo	N 36 22/02/93 \$300,000	A WEINSTOCK 93-NE-241	\$100,000 01/06/93 \$300,000
Cornell University	Francis			

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EXPLORATORY SYNTHESIS EMPLOYING UNUSUAL SYNTHESIS APPROACHES Oregon State University	Sleight Arthur	N 36 22/02/93 \$150,000	A WEINSTOCK 93-NE-242	\$49,985 01/06/93 \$150,000
GENERALIZED TIGHT-BINDING MOLECULAR DYNAMICS OF SEMICONDUCTOR CLUSTERS, CRYSTALS, AND SURFACES Univ of Kentucky Research Foundation	Subbaswamy Kumble	N 36 23/02/93 \$296,922	POMRENKE 93-NE-243	
1993 ACS/OSA TOPICAL MEETING ON ORGANIC THIN FILMS FOR PHOTONIC APPLICATIONS Optical Society of America	Quinn Jarvis	N 36 23/02/93 \$10,000	D SCHLOSSBER 93-NE-244	
(SBR) QUANTUM WELL LONG WAVELENGTH INFRA-RED DETECTORS USING III-V MATERIALS ON SILICON SUBSTRATES Princeton Electronics System	Ghosh Chuni	N 06 25/02/93 \$49,800	POMRENKE 93-NE-245	
1993 INFORMATION PROCESSING IN MEDICAL IMAGING MEETING (IPMI) Univ of Arizona	Barrett Harrison	N 04 01/03/93 \$10,000	A CRAIG 93-NE-246	\$10,000 01/06/93 \$10,000
PRECISE TIME AND TIME INTERVAL APPLICATIONS AND PLANNING MEETING NASA - Goddard Space Flight Center	Granata Raymond	N 07 01/03/93 \$5,750	A KELLEY 93-NE-247	\$5,750 01/03/93 \$5,750
HIGH EFFICIENCY FREQUENCY DOUBLERS USING SINGLE-MODE POLYMER OPTICAL FIBERS Washington State University	Kuzyk Mark	N 36 01/03/93 \$162,787	SCHLOSSBER 93-NE-248	
RESEARCH ON OPTOELECTRONIC SYSTEMS AND DEVICES Univ of Colorado	Cutney W. Thomas	N 12 05/03/93 \$50,000	CRAIG 93-NE-249	
(SOL/SBR) SUPERCONDUCTOR MAGNETIC MEMORY Advanced Technology Materials Inc.	Steinbeck John	N 06 05/03/93 \$75,000	A WEINSTOCK 93-NE-250	\$75,000 01/07/93 \$75,000

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(SDI/SBIR) SUBMILLIMETER QUASIOPTICAL JOSEPHSON JUNCTION OSCILLATOR WITH INTEGRATED TUNING ELEMENTS Conductus, Inc.	Pance	N 06 05/03/93 \$74,981	A WEINSTOCK 93-NE-251	\$74,981 01/07/93 \$74,981
(SDI/SBIR) HIGH TEMPERATURE SUPERCONDUCTING JOSEPHSON JUNCTION ARRAY SYSTEMS Conductus, Inc.	Vartens	N 06 05/03/93 \$49,988	A WEINSTOCK 93-NE-252	\$49,988 01/07/93 \$49,988
(SDI/SBIR) CHALCOGENIDE SUPERCONDUCTORS -- A SEARCH CryoPower Associates	Ladner	N 06 09/03/93 \$79,958	A WEINSTOCK 93-NE-253	\$49,958 01/07/93 \$49,958
(SDI/SBIR) HTS FLUX FLOW TRANSISTOR DEVELOPMENT Parkview Research & Development Inc	Hohensarter	N 06 09/03/93 \$74,985	A WEINSTOCK 93-NE-254	\$74,985 01/07/93 \$74,985
MICROELECTRONICS AND MATERIALS RESEARCH EQUIPMENT Univ of Texas	Hoodson	N 12 12/03/93 \$6,000,000	A WITT 93-NE-255	\$6,000,000 15/06/93 \$6,000,000
AN INVESTIGATION ON RECONFIGURABLE OPTICAL MEMORY Rutgers, The State University	Murdocka	N 12 16/03/93 \$49,539	A CRAIG 93-NE-256	\$25,000 05/04/93 \$25,000
SMART OPTICAL MEMORY SRI International	Kachru	N 36 16/03/93 \$1,199,914	CRAIG 93-NE-257	
JOSEP FELLOWSHIP Massachusetts Institi of Technology	Allen	N 36 17/03/93 \$132,000	A SMITH 93-NE-258	\$41,000 01/06/93 \$132,000
JOSEP FELLOWSHIP Harvard University	Fincham	N 36 19/03/93 \$53,150	A SMITH 93-NE-259	\$20,850 01/07/93 \$59,150

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ISEP FELLOWSHIP Univ of Illinois	Jenkins Kenneth	N 36 19/03/93 \$89,458	A SMITH 93-NE-260	\$44,647 01/06/93 \$89,458
(AASERT-93) INVESTIGATION OF THE LATERAL LIMITS OF GAS IMMERSION LASER DOPING Oregon Graduate Institute	Thomas Signon	N 36 22/03/93 \$150,760	WITT 93-NE-261	
(AASERT-93) STUDIES OF LATTICE-MISMATCHED & LOW-TEMPERATURE-GROWN SEMICONDUCTOR MULTIPLE-PHASE SYSTEMS Univ of California, Berkeley	John Smith	N 36 22/03/93 \$162,030	WITT 93-NE-262	
(AASERT-93) FIELD-EFFECT-CONTROLLED, COULOMB-BLOCKADE SINGLE- ELECTRON TRANSISTOR IN SILICON Massachusetts Institute of Technology	Dimitri Antoniadis	N 36 22/03/93 \$228,270	WITT 93-NE-263	
(AASERT-93) MULTI-STATE QUANTUM STORAGE DEVICES Univ of Texas	Edward Powers	N 36 22/03/93 \$100,685	WITT 93-NE-264	
(AASERT-93) APPLICATION OF WAVELETS TO ELECTROMAGNETICS Univ of Texas	Edward Powers	N 36 22/03/93 \$100,685	SMITH 93-NE-265	
(AASERT-93) MILLIMETER WAVE SOURCE USING A PHASE MATCHED VON-LINEAR MULTIPLE QUANTUM WELL OPTICAL GUIDE Univ of California, Los Angeles	Kang Wang	N 36 22/03/93 \$130,459	SMITH 93-NE-266	
(AASERT-93) IMPLEMENTATION OF THE CNM UNIVERSAL CHIP Univ of California, Berkeley	Chenming Hu	N 36 22/03/93 \$190,679	SMITH 93-NE-267	
(AASERT-93) COLLISIONS OF ATMOSPHERIC GAS MOLECULES Univ of Wisconsin	Chun Lin	N 36 22/03/93 \$200,249	KELLEY 93-NE-268	

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(AASERT-93) ATOMIC BEAM COOLING WITH LASER RADIATION Florida International University	Hardy Kenneth	N 36 22/03/93 \$130,566	KELLEY 93-NE-269	
(AASERT-93) LASER COOLING OF NEUTRAL ATOMS State University of New York	Netcalf Harold	N 36 22/03/93 \$127,209	KELLEY 93-NE-270	
(AASERT-93) ELECTRON IMPACT IONIZATION AND DISSOCIATION OF MOLECULES USED IN PLASMA ETCHING AND DEPOSITION OF SEMICONDUCTORS California Institute of Technology	McKay Vincent	N 36 22/03/93 \$141,464	KELLEY 93-NE-271	
(AASERT-93) EXPERIMENTAL STUDIES OF PLASMA TURBULENCE Massachusetts Institute of Technology	Lee Min-Chang	N 36 23/03/93 \$133,825	BARKER 93-NE-272	
(AASERT-93) MICROWAVE ABSORPTION AND REFLECTION FROM ULTRAVIOLET LASER AND ELECTRON CYCLOTRON RESONANCE PRODUCED PLASMAS Univ of Wisconsin	Scharer John	N 36 23/03/93 \$170,373	BARKER 93-NE-273	
(AASERT-93) COMPUTATIONAL/EXPERIMENTAL STUDIES OF SHEET ELECTRON BEAMS CONFINED BY PERIODICALLY-CUSPED MAGNETIC FIELDS Univ of Wisconsin	Jooske John	N 36 23/03/93 \$263,300	BARKER 93-NE-274	
(AASERT-93) HIGH POWER TWMT RESEARCH Cornell University	Yatton John	N 36 23/03/93 \$219,762	BARKER 93-NE-275	
(AASERT-93) LARGE SIGNAL CHARACTERIZATION AND MODELING OF INP-BASE DIODETEROJUNCTION BIPOLAR TRANSISTORS Ishihara University	Wang James	N 36 23/03/93 \$236,430	POMRENKE 93-NE-276	
(AASERT-93) HIGH POWER, HIGH FREQUENCY RADIATION FROM BEAM-PLASMA INTERACTION Univ of California, Irvine	Sanford Gregory	N 36 23/03/93 \$155,827	BARKER 93-NE-277	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-93) ELECTRICAL AND THERMAL STABILITY OF ATOMICALLY SHARP SILICON EMITTERS AT HIGH ELECTRIC FIELDS Pennsylvania State University	Cutler Paul	N 36 23/03/93 \$101,445	BARKER 93-NE-278	
(AASERT-93) QUANTUM PROCESSES FOR INFRARED DETECTION IN SILICON-BASED HETEROSTRUCTURES Princeton University	Sturm James	N 36 23/03/93 \$128,200	POMRENKE 93-NE-279	
(AASERT-93) STUDENT SUPPORT FOR CARBIDE SURFACE STUDIES Winfield Research Institute	Davis Paul	N 36 23/03/93 \$105,120	BARKER 93-NE-280	
(AASERT-93) DEVELOPMENT OF ELECTRONIC DEVICES AND DEVICE PROCESSING TECHNOLOGY IN 6H-SiC AND B-SiC Oregon Graduate Institute of Sci & Tech	Parsons James	N 36 23/03/93 \$233,660	POMRENKE 93-NE-281	
(AASERT-93) REQUEST FOR ADDITIONAL GRADUATE STUDENT SUPPORT FOR STUDIES OF PLASMA LOADED BACKWARD WAVE OSCILLATORS Univ of Maryland	Granatstein Victor	N 36 23/03/93 \$221,948	BARKER 93-NE-282	
(AASERT-93) MODE LOCKING IN OPEN AND CLOSED CAVITY SYRTRONS Univ of Southern California	McCurdy Alan	N 36 23/03/93 \$148,900	BARKER 93-NE-283	
(AASERT-93) ASM CHARACTERIZATION AUGMENTATION Univ of Dayton	Detrio John	N 36 23/03/93 \$129,468	POMRENKE 93-NE-284	
(AASERT-93) OPTIMIZATION OF HIGH SPEED/HIGH FREQUENCY OPERATION OF VERTICAL CAVITY SURFACE EMITTING LASERS Cornell University	Eastman Lester	N 36 23/03/93 \$169,130	CRAIG 93-NE-285	
(AASERT-93) ELECTRICAL PROPERTIES OF BLUE LASER DIODES Purdue University	Gunshor Robert	N 36 23/03/93 \$149,980	POMRENKE 93-NE-286	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AASERT-93) ADDITIONAL STUDIES OF EXTREMELY HIGH FREQUENCY ELECTRO- OPTIC MODULATORS AND THEIR APPLICATIONS California Institute of Technology	3-Idges William	N 36 23/03/93 \$136,042	CRAIG 93-NE-287	
(AASERT-93) AASERT/INGAALP VISIBLE SURFACE EMITTING LASERS Arizona State University	Maracas George	N 36 23/03/93 \$146,623	POMRENKE 93-NE-288	
(AASERT-93) NOVEL OPTICAL DEVICES FABRICATED ON THE UNCONVENTIONAL (HII) GaAs AND IMP SURFACES Univ of Virginia	Tome Elias	N 36 23/03/93 \$211,510	CRAIG 93-NE-289	
(AASERT-93) FFR INVESTIGATIONS OF MICROSCOPIC ORIGIN OF PHOTOREFRACTIVE EFFECT TRANSITION METAL DOPED BaTiO3, SJM AND BSO Alabama A&M University	Venkateswarlu Putcha	N 36 23/03/93 \$120,962	CRAIG 93-NE-290	
(AASERT-93) EPITAXIAL METALLIZATIONS FOR III-V SEMICONDUCTORS Univ of Minnesota	Cohan Phallio	N 36 23/03/93 \$134,282	POMRENKE 93-NE-291	
(AASERT-93) HOLOGRAPHIC STUDY OF AVIONICS Forrester Polytechnic Institute	Przytulinowicz Ryszard	N 36 23/03/93 \$414,582	CRAIG 93-NE-292	
(AASERT-93) SILICON GERMANIUM ALLOY HETEROSTRUCTURES FOR OPTOELECTRONICS Massachusetts Institute of Technology	Kimberling Lionel	N 36 23/03/93 \$332,088	POMRENKE 93-NE-293	
(AASERT-93) DIPOLELECTRONIC IMPLEMENTATION OF ATM NETWORK PROTOCOLS Univ of North Carolina	Kianilev Fouad	N 36 23/03/93 \$97,732	CRAIG 93-NE-294	
(AASERT-93) PARE-EARTH ARSENIDE/SEMICONDUCTOR HETEROSTRUCTURES: INTERNAL PHOTOEMISSION FROM SEMI-METAL QUANTUM WELLS Univ of California Santa Barbara	Allen S. James	N 36 23/03/93 \$149,040	POMRENKE 93-NE-295	

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CAASERT-93) HOLOGRAPHIC ASSOCIATIVE MEMORIES FOR DATABASE PROCESSING Colorado State University	Witkas Pericles	N 36 23/03/93 \$109,960	CRAIG 93-NE-296	
CAASERT-93) LIGHT EMITTING POROUS SILICON STRUCTURES Univ of Texas	Kaong DLM-Lee	N 36 23/03/93 \$89,484	POMRENKE 93-NE-297	
CAASERT-93) STUDENT SUPPORT FOR MBE RESEARCH IN OPTOELECTRONICS Colorado State University	Robinson Gary	N 36 23/03/93 \$130,000	POMRENKE 93-NE-298	
CAASERT-93) CASCADING OF SECOND ORDER NONLINEARITIES: A NEW ROUTE TO OPTICAL PROCESSING Univ of Central Florida	Stegeman George	N 36 23/03/93 \$135,000	CRAIG 93-NE-299	
CAASERT-93) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODES Univ of California, Berkeley	Saith John	N 36 23/03/93 \$162,030	CRAIG 93-NE-300	
CAASERT-93) PROPERTIES OF WIDE BANDGAP SEMICONDUCTORS THAT AFFECT PERFORMANCE OF UV DETECTORS AND LEDs Univ of Pittsburgh	Choyke Wolfgang	N 36 23/03/93 \$94,399	POMRENKE 93-NE-301	
CAASERT-93) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODES Univ of California, Berkeley	Lau Ken	N 36 23/03/93 \$162,030	CRAIG 93-NE-302	
CAASERT-93) PHOTOREFRACTION AS A DIAGNOSTIC TOOL FOR COMPOUND SEMICONDUCTORS Univ of Arkansas	Salamo Gregory	N 36 23/03/93 \$152,847	POMRENKE 93-NE-303	
CAASERT-93) DYNAMICS OF ANTI-GUIDED LASER ARRAYS Univ of Michigan	Winful Herbert	N 36 23/03/93 \$102,049	CRAIG 93-NE-304	

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PI NAME (LAST, FIRST, MIDDLE) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CAASERT-33) CIVIL STUDIES OF ELECTRONICIZATION Univ of Minnesota	Phillip Cohen	N 36 23/03/93 \$134,202	POMRENKE 93-NE-305	
CAASERT-33) PHOTOIC TECHNOLOGY DEVELOPMENT FOR CENSERLEY INTERCONNECTED LOCAL NETWORKS: ORIENTED MARKS Univ of Southern California	Keith Jenkins	N 36 23/03/93 \$127,642	CRAIG 93-NE-306	
CAASERT-33) COULOMB EFFECTS IN RESONANTLY COUPLED QUANTUM WAVELENGTHS Univ of Notre Dame	Holfgang Bartsch	N 36 23/03/93 \$202,823	POMRENKE 93-NE-307	
CAASERT-33) MOLECULAR MONOPOLARIZATION OF ELECTRONIC SOLIDS Univ of Colorado	Kenneth Douglas	N 36 23/03/93 \$149,381	WEINSTOCK 93-NE-308	
CAASERT-33) IMAGE ENHANCEMENT FOR EFFECTIVE NONDESTRUCTIVE EVALUATION OF DAMAGE AND DEFECTS IN MICROSTRUCTURES AND LITHO Purdue University	James Cline	N 36 23/03/93 \$65,121	WEINSTOCK 93-NE-309	
CAASERT-33) STUDENT TRAINING IN HIGH-TEMPERATURE SUPERCONDUCTING TECHNOLOGIES Univ of Rochester	Roman Luboladzki	N 36 23/03/93 \$122,307	WEINSTOCK 93-NE-310	
CAASERT-33) HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS ASSESS PROGRAM Univ of Minnesota	Allen Salzman	N 36 23/03/93 \$142,320	WEINSTOCK 93-NE-311	
CAASERT-33) HIGHLY COMPOSITIONAL STATE SUPERCONDUCTORS HAVING A LOW TEMPERATURE SUPERCONDUCTING STATE Univ of Delaware	James Coladrai	N 36 23/03/93 \$150,623	POMRENKE 93-NE-312	
CAASERT-33) NONDESTRUCTIVE MEASUREMENTS OF THE EFFECTS OF DEFECTS ON THE ILLINOIS INSTITUTE OF TECHNOLOGY	Sidney Turek	N 36 23/03/93 \$154,440	WEINSTOCK 93-NE-313	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CAASERT-93) NONDESTRUCTIVE METHODS FOR EVALUATING DAMAGE EVOLUTION AND MATERIALS BEHAVIOR IN METAL MATRIX COMPOSITES Univ of Dayton	Cardon Prasanna	N 36 23/03/93 \$167,167	WEINSTOCK 93-NE-314	
CAASERT-93) NEW MATERIALS FOR ELECTRONIC APPLICATIONS Oregon State University	Tralant Arthur	N 35 23/03/93 \$150,000	A WEINSTOCK 93-NE-315	\$150,000 01/08/93 \$150,000
CAASERT-93) CORRELATION OF MICROSTRUCTURE AND OPTICAL PROPERTIES OF GANPALLI MATERIALS FOR OPTOELECTRONIC APPLICATIONS Delphos State Univ, Coll. of Arts & Sci	Song Jan-Joo	N 36 23/03/93 \$109,500	POMRENKE 93-NE-316	
CAASERT-93) CHEMISTRY AND PHYSICS OF THE FULLERENES Temple University	Lebas Martiner	N 36 23/03/93 \$190,261	WEINSTOCK 93-NE-317	
CAASERT-93) NEW APPLICATIONS OF STM MANIPULATION Univ of Texas	Le Lozanne Alex	N 36 23/03/93 \$149,613	A WEINSTOCK 93-NE-318	\$149,613 01/08/93 \$149,613
CAASERT-93) SEMICONDUCTOR HETEROSTRUCTURE AND CHARACTERIZATION FOR HIGH TEMPERATURE ELECTRONICS Tennessee-Tallahassee University	Kowronski Mark	N 36 23/03/93 \$149,823	POMRENKE 93-NE-319	
CAASERT-93) SUPERCONDUCTIVE ORGANIC POLYMERS, STUDENT SUPPORT FOR THE PREPARATION AND CHARACTERIZATION OF NEW MATERIALS Univ of Texas	Eisenhammer Donald	N 36 23/03/93 \$251,517	WEINSTOCK 93-NE-320	
CAASERT-93) MOLECULAR BEAM EPITAXIAL SUPERSTRUCTURES FOR IMPROVED DETECTOR APPLICATIONS Columbia University	Yang Man	N 36 23/03/93 \$153,337	POMRENKE 93-NE-321	
CAASERT-93) ORGANIC SUPERCONDUCTORS IN HIGH MAGNETIC FIELDS Link University	Stosta Charles	N 36 23/03/93 \$14,685	WEINSTOCK 93-NE-322	

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TITLE (CONT.) SUBSTITUTION				
CAASERT-93) HIGH RESOLUTION FLUID FLOW OF MAGNETIC AND NON-MAGNETIC COMPONENTS Vanderbilt University	John Viksmo	N 36 23/03/93 \$149,975	WEINSTOCK 93-NE-323	
CAASERT-93) HIGH-RESOLUTION AND GAP SEMICONDUCTOR (GAP AND MISSED) HETEROJUNCTIONS Princeton University	Stephen Corraet	N 36 23/03/93 \$173,177	POMRENKE 93-NE-324	
CAASERT-93) SPATIALLY-RESOLVED SPECTROSCOPY AND IMAGING OF MAGNETIC MICROSTRUCTURES Univ of California, Santa Barbara	David Vaschelon	N 36 23/03/93 \$150,000	A WEINSTOCK 93-NE-325	\$150,000 01/08/93 \$150,000
CAASERT-93) THE MECHANISMS FOR SCANNING THERMAL PROFILING OF INFRARED EMISSIONS FROM SOLIDS Rendell University	Thomas Sullivan	N 36 23/03/93 \$147,714	WEINSTOCK 93-NE-326	
CAASERT-93) SYNTHESIS AND CHARACTERIZATION OF NOVEL FULLERENE COMPOUNDS Univ of California, Davis	Liu Ji-Zha	N 36 23/03/93 \$131,911	WEINSTOCK 93-NE-327	
CAASERT-93) LASER TRAINING AND RESEARCH IN SIM METHODS FOR CHARACTERIZATION OF MESOSCALE COPPER SUPERCONDUCTOR JOINTS Polytechnic University	Ed Kohl	N 36 23/03/93 \$309,565	WEINSTOCK 93-NE-328	
CAASERT-93) WPC - SILVER HYBRID ICM Georgia Institute of Tech	Yoni Kohl	N 36 23/03/93 \$157,609	WEINSTOCK 93-NE-329	
CAASERT-93) THE ROLES OF ULTRASHALL TUNNEL JUNCTIONS AND SYSTEMS State University of New York	Konstantin Likharev	N 36 23/03/93 \$132,651	WEINSTOCK 93-NE-330	
CAASERT-93) DEVELOPMENT AND APPLICATION OF LASER DIAGNOSTICS OF HIGH-TEMPERATURE PLASMA AND OTHER HOSTILE ENVIRONMENTS Ohio State University	Terry Miller	N 36 23/03/93 \$199,425	SCHLOSSER 93-NE-331	

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CRASERT-93) FOCUSED-ION-Beam MICRO-MACHINING OF OPTICAL SURFACES FOR SEMICONDUCTOR LASERS Oregon Graduate Institute	DeFreese Richard	N 36 23/03/93 \$179,424	SCHLOSSBER 93-NE-332	
DRIFT MOBILITY MEASUREMENTS IN THIN FILM BORON CARBIDE Syracuse Univ - Dept Elec & Computer Eng	Comden Peter	N 12 23/03/93 \$40,929	A JITT 93-NE-333	\$40,928 15/09/93 \$40,928
CRASERT-93) HIGH EFFICIENCY DIODE PUMPED 2.1 MICRON LASER Iowa State University	Kushnaren Vikram	N 36 23/03/93 \$120,675	SCHLOSSBER 93-NE-334	
CRASERT-93) STUDY OF FAST CHARGE CARRIER EFFECTS IN THE FREQUENCY DOMAIN USING PHOTOEXCITATION Cornell University	Eastman Lester	N 36 23/03/93 \$163,130	SCHLOSSBER 93-NE-335	
CRASERT-93) DEVELOPMENT OF MOVING DISK DRIVERS AND MIRROR LASERS PUMPED BY PULSED DIODE LASERS Iowa State University	Kushnaren Vikram	N 36 23/03/93 \$120,775	SCHLOSSBER 93-NE-336	
CRASERT-93) CHARACTERIZATION RADIATION FROM ELECTRO-OPTIC CRYSTALS Pennsylvania Polytechnic Institute	Liang Yi-Cheng	N 36 23/03/93 \$257,331	SCHLOSSBER 93-NE-337	
CRASERT-93) PROPOSAL FOR AN ASSET STUDENT IN LASER DEVICE RESEARCH AT STANFORD UNIVERSITY Stanford University	Eastman Anthony	N 36 23/03/93 \$114,563	SCHLOSSBER 93-NE-338	
CRASERT-93) STUDY OF LASER Univ of Southern California	Hallworth Robert	N 36 23/03/93 \$119,714	SCHLOSSBER 93-NE-339	
CRASERT-93) SECOND-ORDER X-RAY PHOTOEXCITATION Washington State University	Kushnaren Margaret	N 36 23/03/93 \$94,902	SCHLOSSBER 93-NE-340	

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CASSETT-93) OPTICAL FIBER SENSORS JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-341	36 23/03/93 \$147,525
CASSETT-93) FIBER OPTIC SENSORS FOR BIOPHARMACEUTICALS RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-342	36 23/03/93 \$29,400
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-343	36 23/03/93 \$157,266
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-344	36 23/03/93 \$121,664
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-345	36 23/03/93 \$217,518
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-346	36 23/03/93 \$106,610
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-347	36 23/03/93 \$113,557
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-348	36 23/03/93 \$99,523
CASSETT-93) FIBER OPTIC SENSORS FOR ATMOSPHERIC MONITORING RESEARCH JOHN COLLETT UNIVERSITY	SCHLOSSER 93-NE-349	36 23/03/93 \$146,399

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COPIR-PHASE AND ORGANIC/IN-SEMICONDUCTOR HETEROJUNCTIONS	Jones	N 24 25/03/93 \$499,644	POMRENKE 93-NE-350	
Santa Barbara Technology	Colin			
COPIR-PHASE AND ORGANIC/IN-SEMICONDUCTOR HETEROJUNCTIONS FOR OPTOELECTRONICS	Doon	N 24 25/03/93 \$519,691	POMRENKE 93-NE-351	
Microelectronics Associates, Inc.	Victoria			
COPIR-PHASE AND NOVEL Zn-AlGaInSb-As BASED HETEROSTRUCTURE FIELD EFFECT TRANSISTOR DEVICES FOR HIGH TEMPERATURE (350 C) ELECTRONICS	Qian	N 24 25/03/93 \$499,959	POMRENKE 93-NE-352	
IPA Optics Inc	W. Asif			
COPIR-PHASE AND ION DOPED QUANTUM WELL LASERS	Greenwald	N 24 25/03/93 \$749,931	POMRENKE 93-NE-353	
Saire Corporation	Anton			
RAMD GAP VERSUS COMPOSITION IN JUNCED SYSTEM	Hayes	N 12 25/03/93 \$159,394	WITT 93-NE-354	\$90,000 15/07/93 \$159,994
Arizona State University	James			
COPIR-PHASE AND COMPACT ACTIVE HYDROGEN BASED	Julia	N 24 25/03/93 \$499,968	KELLEY 93-NE-355	
Physical Sciences Inc	David			
CRABEAT-930 RESEARCH GROUP TECHNOLOGY CORPORATION PROJECTS AND ARCHITECTURE	Macdonald	N 36 25/03/93 \$407,565	WITT 93-NE-356	
Corneil University	David			
DEVELOPMENT OF LASER MICROCHEMICAL SENSING	Carlrich	N 36 25/03/93 \$776,190	SCHLOSSER 93-NE-357	
AIR - Lincoln Lab	Taniel			
HIGH QUALITY LOW POWER STIMULATED AND STIMULATED TECHNOLOGIES FOR HIGH SPEED COMPUTING	Don	N 24 25/03/93 \$599,971	WITT 93-NE-358	\$185,000 15/07/93 \$599,971
Rockwell Intern. Assoc. Univ. Center	K.			

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CASPER-93 A PHYSICS BASED ANALYTICAL MODEL FOR ART DEVICES	DAVID Cornell University	A 36 25/03/93 \$9,307	MITT 93-NE-359	
CUNIO-933 NONDESTRUCTIVE DETECTION AND CHARACTERIZATION OF CORROSION IN AIRCRAFT	James Case Case State University	N 36 30/03/93 \$450,000	A WEINSTOCK 93-NE-360	\$150,000 01/07/93 \$450,000
CUNIO-933 THERMAL RAVE IMAGING FOR WDE OF HIDDEN CORROSION IN AIRCRAFT COMPONENTS	Thomas Robert Wayne State University	N 36 30/03/93 \$270,000	A WEINSTOCK 93-NE-361	\$90,000 01/07/93 \$270,000

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UNITED STATES AIR FORCE SUMMER RESEARCH PROGRAMS				
Competitive Bidding		N 12 13/01/93 \$8,040,000	A RHODS 93-NI-012	\$14,000 30/09/93 \$8,012,000
INTERNATIONAL SCIENCE LECTURE SERIES				
Office of Naval Research		N 45 14/01/93 \$50,000	A ZARBO 93-NI-013	\$50,000 11/01/93 \$50,000
NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE (NDSEG) FELLOWSHIP PROGRAM				
Army Research Office		N 07 25/01/93 \$59,146	A CAVENDER 93-NI-014	\$59,146 01/03/93 \$59,146
EVOLUTION OF SOLAR ACTIVE REGIONS				
Armstrong Laboratory		N 03 26/01/93 \$10,900	A BOLAND 93-NI-015	\$10,900 10/02/93 \$10,900
FIRST PRINCIPLES QUANTUM MECHANICAL MODELING OF EXCITED STATES IN CONJUGATED OLIGOMERS BY AB INITIO METHODS AND APPLICATIONS ...				
Armstrong Laboratory		N 06 26/01/93 \$21,737	A BOLAND 93-NI-016	\$21,737 15/03/93 \$21,737
CONCENTRATION AND DISPERSAL OF SOLAR MAGNETIC FIELDS BY MESOGRAULIC CONVECTION				
Armstrong Laboratory		N 06 03/03/93 \$24,500	A BOLAND 93-NI-017	\$12,800 13/14/93 \$24,500
A COMPREHENSIVE STUDY OF THE AERODYNAMICS OF MAP AROUND FINS USING EXPERIMENTAL AND COMPUTATIONAL TECHNIQUES				
Armstrong Laboratory		N 03 03/03/93 \$12,600	A BOLAND 93-NI-018	\$12,600 13/03/93 \$12,600
MOON-SELECTIVE ION-MOLECULE CHEMISTRY				
Phillips Lab - Geophysics Directorate	DRESSLER	N 02 03/03/93 \$9,750	A BOLAND 93-NI-019	\$9,750 16/05/93 \$9,750

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NEUROMODULATION OF ELECTROPHYSIOLOGICAL INDICES OF COGNITION Univ of California, San Diego	Pineda	N 36 05/01/93 \$807,213	HADDAD 93-NL-081	\$144,905 30/09/93 \$540,000
STRESS-INDUCED ENHANCEMENT OF THE STARTLE REFLEX Yale University School of Medicine	Davis	R 36 06/01/93 \$753,239	HADDAD 93-NL-083	
TOPICAL SYMPOSIUM ON COMBINED OPTICAL-MICROWAVE EARTH AND ATMOSPHERIC SENSING NASA - Langley Research Center	McMaster	N 10 06/01/93 \$5,000	STOBIE 93-NL-084	
AUTOMATED ANALYSIS OF REGIONAL WAVE PROPAGATION WITH EMPHASIS ON RECOGNITION OF SPECTRAL DIFFERENCES BETWEEN POINT AND DISTRIBUTED... St. Louis University	Herrmann	N 24 11/01/93 \$141,300	DICKINSON 93-NL-086	\$140,867 01/05/93 \$141,300
TEMPORAL AND QUALITATIVE DECOMPOSITION OF PLAUSIBLE REASONING Univ of California, San Diego	Swiney	N 12 11/01/93 \$105,193	TANGNEY 93-NL-087	\$102,965 01/03/93 \$105,193
WAVE PROPAGATION AND SOURCE PARAMETERS IN EURASIA Pennsylvania State University	Langston	N 24 11/01/93 \$152,852	DICKINSON 93-NL-088	\$152,607 15/04/93 \$152,852
ANALYSIS AND SYNTHESIS OF ADAPTIVE NEURAL ELEMENTS AND ASSEMBLIES Univ of Texas Health Science Ctr	Byrne	R 36 21/01/93 \$748,522	HADDAD 93-NL-090	\$160,000 30/09/93 \$510,000
DEVELOPMENT OF REGIONAL DISCRIMINANTS California Institute of Technology	Leiberman	N 24 22/01/93 \$232,450	DICKINSON 93-NL-091	\$232,450 01/05/93 \$232,450
RELATIONSHIP BETWEEN SPATIAL ORIENTATION AND POSTURAL (DISEASE) JILIBRIUM Essex Corporation	Kennedy	N 36 22/01/93 \$346,180	COLLINS 93-NL-092	

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SOLAR VECTOR MAGNETIC FIELD RESEARCH Johns Hopkins University	Rust David	R 36 25/01/93 \$597,300	RADOSKI 93-NL-093	
ANALYSIS OF MOVING COMPLEX IMAGES: VISUAL PSYCHOPHYSICS AND COMPUTATIONAL MODELING Rutgers, The State University	Shiffar Margaret	N 36 27/01/93 \$178,343	TANGNEY 93-NL-094	
A COMPUTATIONAL MODEL OF SPEECH PRODUCTION BASED ON A NEW PHONETIC REPRESENTATION Ohio State University	Abalt Stanley	N 36 28/01/93 \$499,187	TANGNEY 93-NL-095	
ROLE OF PERSISTENCE CUES IN DISORIENTATION/MOTION SICKNESS Pennsylvania State University	Leibowitz Herschel	N 36 29/01/93 \$355,934	COLLINS 93-NL-096	
COLOR CODES AND VISUAL SEARCH Univ of Washington	Teller David	N 36 02/02/93 \$404,142	TANGNEY 93-NL-097	
COMMISSION ON BEHAVIORAL AND SOCIAL SCIENCES AND EDUCATION National Academy of Sciences	Wuay Daverly	N 36 03/02/93 \$180,000	A TANGNEY 93-NL-100	\$120,000 01/10/92 \$120,000
SPATIAL FRAMEWORKS FOR PERCEIVED ENVIRONMENTS Northeastern University	Bryant David	N 36 05/02/93 \$129,611	COLLINS 93-NL-101	
A NON-LINEAR FRACTURE MECHANICS MODEL FOR SPALLATION & COUPLING OF NUCLEAR EXPLOSIONS DETONATED IN HARD ROCK Univ of Southern California	Sannis Charles	N 24 08/02/93 \$120,000	A DICKINSON 93-NL-102	\$119,190 01/06/93 \$120,000
HIGH RESOLUTION MOLECULAR SPECTROSCOPY OF ATMOSPHERIC SPECIES North Carolina Central University	Dutta J	N 36 09/02/93 \$329,427	STOBIE 93-NL-103	

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LABORATORY STUDIES OF ICE INITIATION IN CLOUD USING THE UMR SIMULATION FACILITY Univ of Missouri	White Dan	N 36 19/02/93 \$353,067	STOBIE 93-NL-104	
VISUAL CORTEX CHANGES IN FOLLOWING FOVEAL LESIONS IN ADULT MONKEYS Wortheaster University	Alexander Skavenski	N 36 22/02/93 \$395,128	HADDAD 93-NL-105	
COMMITTEE ON HEARING, BIOACOUSTICS, AND BIOMECHANICS National Research Council	Margulies Timothy	N 36 23/02/93 \$857,530	A TANGNEY 93-NL-106	\$4,715 01/04/93 \$4,715
VISUAL AND AUDITORY SENSITIVITIES AND DISCRIMINATIONS Yale University	Regan David	R 36 23/02/93 \$657,506	TANGNEY 93-NL-107	
SEISMIC WAVE RADIATION, PROPAGATION AND EVENT LOCATION IN LATERAL HETEROGENEOUS MEDIA Massachusetts Institute of Technology	Toksoz M. Hafi	N 18 02/03/93 \$219,000	A DICKINSON 93-NL-108	\$219,000 01/07/93 \$219,000
CELLULAR INTERACTIONS IN THE SUPRACHIASMATIC NUCLEUS Stanford University	van den Pol Anthony	N 36 08/03/93 \$634,380	A HADDAD 93-NL-109	\$210,877 01/05/93 \$634,380
GENETIC CONSTRUCTION AND PERFORMANCE OF PSEUDOMONAS PUTIDA STRAINS FOR BIODEGRADATION OF RECALCITRANT HALOORGANIC COMPOUNDS Univ of Minnesota, ORITA	Lawrence Hackett	N 36 08/03/93 \$397,159	KOZUMBO 93-NL-110	
GENETICS AND REGULATION OF NITROAROMATIC HYDROCARBON DEGRADATION Rutgers, The State University	Zylstra Gerben	N 36 08/03/93 \$163,914	KOZUMBO 93-NL-111	
CARDIOVASCULAR TOXICITY OF ENVIRONMENTAL CONTAMINANTS TO DEVELOPING FISH--MOLECULAR MECHANISMS Cornell University	Spitsbergen Jan	N 36 09/03/93 \$131,993	KOZUMBO 93-NL-112	

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STEROID HYDROXYLASE ACTIVITIES AS NONINVASIVE BENCHMARKERS OF TOXICANT EXPOSURE AND EFFECT North Carolina State University	LeBlanc Gerald	N 36 09/03/93 \$215,121	KOZUMBO 93-NL-113	
CHRONIC TOXICITY OF COMPLEX MIXTURES: DEVELOPMENT OF EFFICIENT TESTS f Virginia Polytechnic Inst & State Univ	Calms, Jr. John	N 36 09/03/93 \$201,729	KOZUMBO 93-NL-114	
PREDICTION OF TUMOR YIELD BASED ON CYTOTOXIC VS SELECTIVE EFFECTS ON CELL PROLIFERATION Washington State University	Hull Richard	N 36 09/03/93 \$435,664	KOZUMBO 93-NL-115	
THE EFFECTS OF CHRONIC JP-8 FUEL EXPOSURE ON THE LUNGS AND SECONDARY ORGANS Univ of Arizona	Witten Mark	N 36 09/03/93 \$509,551	KOZUMBO 93-NL-116	
ANALYTICAL CYTOLOGY TECHNIQUES IN PREDICTIVE TOXICOLOGY Univ of Washington	Kavanaugh Terrance	N 36 09/03/93 \$651,041	KOZUMBO 93-NL-117	
PREDICTING TOXICITY AND DEGRADABILITY OF QUAKRICYCLANE, FLUOROCARBON ETHERS AND THEIR ANALOGS Univ of Minnesota	Jasak Subhash	N 36 09/03/93 \$661,106	KOZUMBO 93-NL-118	
CHARACTERIZATION OF THE CELLULAR STRESS RESPONSE INDUCED BY EXPOSURE TO ORGANIC COMPOUNDS California State University	Sanders Grenda	N 36 09/03/93 \$353,175	KOZUMBO 93-NL-119	
EFFECTS OF CELL REGENERATION FOLLOWING EXPOSURE OF THE HTO ON SUSCEPTIBILITY TO CHEMICAL-INDUCED HEPATOTOXICITY & MUTAGENICITY Univ of Massachusetts	Calabrese Edward	N 36 10/03/93 \$338,542	KOZUMBO 93-NL-120	
VALIDATION OF A MAMMALIAN MULTIPARAMETER IN SITU MODEL OF TERRESTRIAL EXOTOXICITY ASSESSMENT Oklahoma State Univ, Coll. of Arts & Sci	McGee Karen	N 36 10/03/93 \$627,443	KOZUMBO 93-NL-121	

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EFFECTIVE MAP USES THE DIFFERENTIAL CONTRIBUTION OF MAP AND USER V VARIABLES Southeastern Louisiana University	Rossano Matt	N 36 10/03/93 \$159,453	D TANGNEY 93-NL-122	
COMPONENTS OF INFORMATION IN IMPLICIT AND EXPLICIT MEMORY TESTS New York University	Snodgrass Joan	N 36 10/03/93 \$276,783	TANGNEY 93-NL-123	
INDUCTION OF CHEMICAL BIOMARKERS IN FISH Medical College of Wisconsin	Laen John	N 48 10/03/93 \$693,666	KOZUMBO 93-NL-124	
LOW TEMPERATURE DEPENDENCE OF LORENTZ BROADENING COEFFICIENTS FOR METHANE, NITROUS OXIDE AND CARBONYL SULFIDE Eastern Washington University	Wilson M. William	N 24 10/03/93 \$27,460	STOBIE 93-NL-125	
INTERACTION OF QUADRICYCLANE WITH DNA State University of New York	Sikes Harish	N 24 10/03/93 \$263,771	KOZUMBO 93-NL-126	
AN INTERDISCIPLINARY AND ALTERNATIVE APPROACH TO ASSESS CARCINOGEN ICITY OF CHLOROBENZENES Colorado State University	Yang Raymond S.	N 36 10/03/93 \$680,019	KOZUMBO 93-NL-127	
UTILIZATION OF MATHEMATICAL MODELING AND A MULTICOMPARTMENT CELL CULTURE ANALOG SYSTEM TO PREDICT HUMAN RESPONSES TO DIOXIN Cornell University	Sauler Michael	N 24 10/03/93 \$256,279	KOZUMBO 93-NL-128	
CYTCHROME P450A INDUCTION IN VERTEBRATE ENDOTHELIUM Boots Hole Oceanographic Institute	Stegeman John	N 36 10/03/93 \$364,221	KOZUMBO 93-NL-129	
ECOLOGICAL INTERACTIONS IN BIOREMEDIATION Pennsylvania State University	Pratt J.R.	N 36 10/03/93 \$253,915	KOZUMBO 93-NL-130	

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MECHANISMS OF MICROBIAL TRANSFORMATION OF GTM AND CYCLIC MITAMINES Univ of Wyoming	S. Colberg	N 36 10/03/93 \$464,906	KOZUMBO 93-NL-131	
RESPONSE OF MICROBIAL NICHES TO HAZARDOUS WASTES University of Idaho	Kellogg	N 36 10/03/93 \$202,029	KOZUMBO 93-NL-132	
ANAEROBIC-AEROBIC TREATMENT OF MUNITIONS WASTE Univ of Washington	Stensel	N 36 11/03/93 \$390,405	KOZUMBO 93-NL-133	
INTERACTIONS BETWEEN METALS, ORGANOMETALS AND MICROORGANISMS Univ of Massachusetts	Cooney	N 36 11/03/93 \$445,958	KOZUMBO 93-NL-134	
EFFECTS OF MICROBIAL TROPHIC INTERACTIONS ON THE FATE AND MOBILITY OF POLYCHLORINATED BIPHENYLS Univ of West Florida	Snyder	N 36 12/03/93 \$341,473	KOZUMBO 93-NL-135	
UNDERSTANDING THE EARTH'S DYNAMICS AND STRUCTURE: JOINT SEISMIC P ROGRAM National Science Foundation	Wells	N 12 12/03/93 \$6,500,000	A DICKINSON 93-NL-136	\$6,500,000 01/10/92 \$6,500,000
THE EFFECT OF STRUCTURAL ANALOGUES ON MONOAROMATIC HYDROCARBONS BIODEGRADATION Univ of Iowa	Alvarez	N 36 12/03/93 \$251,294	KOZUMBO 93-NL-137	
USE OF DNA HYBRIDIZATION TO CHARACTERIZE MICROBIAL COMMUNITY RESPONSE TO TOXIC STRESS AND NATURAL BIOMEDIATION POTENTIAL Virginia Polytechnic Inst & State Univ	John	N 36 12/03/93 \$156,045	KOZUMBO 93-NL-138	
BIODEGRADATION OF ENVIRONMENTAL POLLUTANTS IN PHYSIOCHEMICALLY ENHANCED SYSTEMS Univ of Notre Dame	Burgus	N 36 12/03/93 \$327,184	KOZUMBO 93-NL-139	

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THE POTENTIAL USE OF THE RHIZOSPHERE EFFECT TO ENHANCE BIOREMEDIATION OF CONTAMINATED SURFACE SOILS Iowa State University	Coats	N 36 12/03/93 \$214,336	KOZUMBO 93-NL-140	
BIOREMEDIATION POTENTIAL	Holden	N 36 12/03/93 \$367,019	KOZUMBO 93-NL-141	
BIOREMEDIATION OF CONTAMINATED SOILS USING COMETABOLISM BY AMMONIA-OXIDIZING BACTERIA Purdue University	Allesan	N 24 16/03/93 \$130,014	KOZUMBO 93-NL-142	
IMPACT OF HAZARDOUS WASTES ON MICROBIAL COMMUNITIES DURING AND AFTER BIOREMEDIATION University of Idaho	Kellogg	N 36 16/03/93 \$410,389	KOZUMBO 93-NL-143	
SOFTWARE FOR MEASURING THE HUMAN PSYCHOPHYSIOLOGICAL RATING IN ORU ER TO PREDICT LEARNING AND COGNITIVE AND COGNITIVE ABILITIES Taras Shevchenko University	G.	N 12 16/03/93 \$59,937	TANGNEY 93-NL-144	
AN ASSESSMENT OF THE CAPACITY OF DENITRIFICATION IN GROUNDWATER TO REMEDIATE ORGANIC CONTAMINATION UNDER IN SITU CONDITIONS US Department of Interior Geological	Smith	N 36 16/03/93 \$386,530	KOZUMBO 93-NL-145	
THE MONITORING AND CONTROL OF RETRIEVAL IN HUMAN MEMORY Univ of California, Irvine	Verens	N 36 17/03/93 \$139,703	TANGNEY 93-NL-146	
UPPERMOST MANTLE STRUCTURE IN SOUTHERN EURASIA FROM SN ATTENUATION AND PN TOMOGRAPHY New Mexico State University	Hearn	N 24 18/03/93 \$84,415	DICKINSON 93-NL-147	\$84,415 01/07/93 \$84,415
SEISMIC WAVE PROPAGATION IN SOUTH AMERICA Observatorio San Carlos	Drake	N 24 19/03/93 \$90,560	DICKINSON 93-NL-148	\$90,560 01/07/93 \$90,560

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MODELING OF CLOUD/RADIATION PROCESSES FOR CIRRUS CLOUD FORMATION Univ of Utah	Liu	N 36 22/03/93 \$423,000	STOBIE 93-NL-149	
ASERT-93 WEATHER ANALYSIS AND PREDICTION USING EMPIRICAL ORTHOGONAL FUNCTIONS Florida State University	Richard	N 36 23/03/93 \$143,152	STOBIE 93-NL-150	
ASERT-93 MODELING OF WAVE AND INSTABILITY PROCESSES IN THE ATMOSPHERE Univ of Colorado	David	N 36 23/03/93 \$226,275	STOBIE 93-NL-151	
COMMITTEE ON GEODESY National Academy of Sciences	Wolf	N 12 23/03/93 \$15,000	A DICKINSON 93-NL-152	\$15,000 01/01/93 \$15,000
ASERT-93 RADAR STUDIES OF THE LOWER IONOSPHERIC PLASMAS Boston University	Lee	N 36 23/03/93 \$323,511	STOBIE 93-NL-153	
ASERT93 - GRADUATE STUDENT STUDIES ON SEISMIC PROBLEMS RELEVANT TO MONITORING NONPROLIFERATION TREATY Univ of Arizona	Wallace	N 36 23/03/93 \$70,467	DICKINSON 93-NL-154	
ASERT-93 AUGMENTATION AWARD FOR MONOCLONAL ANTIBODY DETECTION OF CHLORINATED BENZENES ON CONTAMINATED SEDIMENTS Univ of Missouri	Hossman	N 36 23/03/93 \$67,134	KOZUMBO 93-NL-155	
ASERT-93 THE ROLE OF GAP JUNCTIONAL COMMUNICATION IN CHEMICAL TOXICOLOGY Michigan State University	Trosko	N 36 23/03/93 \$258,944	KOZUMBO 93-NL-156	
ASERT-93 - CRUSTAL STRUCTURE OF THE SOUTHWESTERN UNITED STATES Univ of Texas, El Paso	Keller	N 36 23/03/93 \$113,790	DICKINSON 93-NL-157	

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ASERT-93 - MODELING OFF COMPLEX GEOPHYSICAL FIELDS AND EARTH DYNAMICS Univ of California, Berkeley	Jeanloz Raymond	N 36 23/03/93 \$189,658	DICKINSON 93-NL-158	
ASERT-93 IMPROVED CHROMATOGRAPHIC BIOAVAILABILITY ESTIMATIONS Univ of Cincinnati	Dorsey John	N 36 24/03/93 \$132,717	KOZUMBO 93-NL-159	
ASERT-93 - TRAINING IN MOLECULAR ENVIRONMENTAL TOXICOLOGY Univ of Wyoming	Petersen Nancy	N 36 24/03/93 \$165,652	KOZUMBO 93-NL-160	
ASERT-93 INTEGRATING PROBABILISTIC AND PHYSICALLY-BASED MODELS FOR OPTIMAL GROUNDWATER CONTAMINATION REMEDIATION PLANNING Duke University	Miguel	N 36 24/03/93 \$295,869	KOZUMBO 93-NL-161	
ASERT-93 - AUGMENTATION TO IN SITU BIODEGRADATION OF NITROAROMATIC COMPOUNDS IN SOIL University of Idaho	Crawford Ronald	N 36 24/03/93 \$108,788	KOZUMBO 93-NL-162	
ASERT-93 CONTAMINANT TRANSPORT IN UNCONSOLIDATED SAND AND GRAVEL AQUIFERS: THE SCALE PARADOX Univ of Kansas	Gutler, Jr. James	N 36 24/03/93 \$141,267	KOZUMBO 93-NL-163	
ASERT-93 - AUGMENTATION OF RESEARCH ON PACKED TOWER APPARATUS FOR ADVANCED OXIDATION PROCESSES FOR GROUNDWATER CLEANUP Michigan Technological University	Hubbard Davis	N 36 24/03/93 \$88,251	KOZUMBO 93-NL-164	
SPACE PERCEPTION WITH NORMAL AND PROSTHETIC VISION Rutgers - The State University	Madani Itzhak	N 36 24/03/93 \$178,342	COLLINS 93-NL-165	
ASERT-93 - ORIGINS OF SOLAR ACTIVITY Johns Hopkins University	Rust David	N 36 24/03/93 \$106,200	RAOUSKI 93-NL-166	

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ASERT-93 - CONTROL OF CIRCADIAN BEHAVIOR BY LIGHT & TRANSPLANTED SUPRACHIASMATIC NUCLEI Univ of Virginia	Menaker Michael	N 36 24/03/93 \$156,542	HADDAD 93-NL-167	
ASERT-93 NEUROCHEMICAL MODULATION OF MOTOR FUNCTION DURING BEHAVI OR Princeton University	Jacobs Barry	N 36 24/03/93 \$193,014	HADDAD 93-NL-168	
ASERT-93 PERCEPTION AND CONTROL OF LOCOMOTION Bright State University	Leach John	N 36 24/03/93 \$77,534	COLLINS 93-NL-169	
ASERT-93 - AUGMENTATION OF VISUAL PERCEPTION OF ELEVATION* Columbia University	Martin Leonard	N 36 24/03/93 \$284,310	COLLINS 93-NL-170	
ASERT-93 GRADUATE STUDIES OF IONOSPHERIC COMPOSITION AND DYNAMICS UTILIZING DATA FROM THE DEFENSE METEOROLOGICAL SATELLITE PROGRAM Univ of Texas	Moelis Roderick	N 36 24/03/93 \$114,756	STOBIE 93-NL-171	
ASERT-93 - MARINE BOUNDARY-LAYER PARAMETERIZATIONS FOR LARGE-SCALE MODELS: DATA ANALYSIS AND VERIFICATION Oregon State University	Mahrt Larry	N 36 24/03/93 \$114,883	STOBIE 93-NL-172	
ASERT-93 EXPERIMENTAL & THEORETICAL STUDIES OF SELECTIVE ATTENTIO N IN VISUAL SEARCH Univ of California, Irvine	Sperling George	N 36 24/03/93 \$87,653	TANGNEY 93-NL-173	
ASERT-93 - LISTENER BASED FACTORS IN PERCEPTION State University of New York	Savuel Arthur	N 36 24/03/93 \$84,998	TANGNEY 93-NL-174	
ASERT-93 GRADUATE STUDENT RESEARCH SOUND SOURCE DETERMINATION Columbia University	Yost William	N 36 24/03/93 \$65,767	TANGNEY 93-NL-175	

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IASERT-93 - STIMULUS SIMILARITY VS PROCESS SIMILARITY IN PICTURE PRIMING New York University	Snodgrass Joan	N 36 24/03/93 \$241,825	TANGNEY 93-NL-176	
IASERT-93 - STUDENT PARTICIPATION IN THE MODELING OF CELESTIAL ULTRAVIOLET SOURCES Johns Hopkins University	Henry Richard	N 36 25/03/93 \$522,343	RADOSKI 93-NL-177	
IASERT-93 - MODELING ESTIMATION PROCESSES IN SPATIAL JUDGMENT: APPLICATIONS TO MAN-MACHINE INTERACTION INVOLVEMENT Univ of Chicago	Wittenlocher Janellen	N 36 25/03/93 \$188,248	TANGNEY 93-NL-178	
IASERT-93 - STUDENTS IN ADVANCED RESEARCH FOR SKY SURVEILLANCE Univ of Arizona	Gehrels Tom	N 36 25/03/93 \$138,126	RADOSKI 93-NL-179	
IASERT-93 - REMOTE MEASUREMENTS OF THE MORPHOLOGY AND INTENSITY OF THE AURORAL ELECTROJET Stanford University	Inan Usran	N 36 25/03/93 \$155,820	RADOSKI 93-NL-180	
IASERT-93 TOPICS IN ASTROPHYSICAL FLUID DYNAMICS Columbia University	Spiegel Edward	N 36 25/03/93 \$247,341	RADOSKI 93-NL-181	
IASERT-93 FURTHER STUDIES OF NOVEL POPOUT Univ of Utah	Johnston William	N 36 26/03/93 \$252,554	TANGNEY 93-NL-182	
IASERT-93 IMPROVED MODELS OF THE MAGNETOSPHERIC LOW LATITUDE BOUND LAY LAYER Dartmouth College	Sonnerup Gengt U.O.	N 36 26/03/93 \$114,363	RADOSKI 93-NL-183	
IASERT-93 MAGNETOSPHERIC STRUCTURE & DYNAMICS: AASERT SUPPLEMENT Boston University	Hugnes W. Jeffrey	N 36 26/03/93 \$226,598	RADOSKI 93-NL-184	

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IASERT-93 MAGNETIC ACTIVITY IN ALGOL BINARIES Univ of Virginia	Richards Mercedes	N 36 26/03/93 \$139,766	RADOSKI 93-NL-185	
IASERT-93 - ADAPTATION TO SPATIAL DISTORTIONS ON VIDEO DISPLAY TERMINALS Univ of California, Santa Cruz	Bridgeman Bruce	N 36 29/03/93 \$18,504	COLLINS 93-NL-186	
IASERT-93 STUDENT RESEARCH OF HIGH-ENERGY ELECTRON BEAM-INDUCED IO VOSPHERIC MODIFICATION Univ of Michigan	Gilchrist Brian	N 36 29/03/93 \$220,135	STOBIE 93-NL-187	
IASERT-93 GRADUATE STUDENT SUPPORT FOR ELECTRIC CHARGE TRANSFER IN CLOUDS Desert Research Institute	Pittor Richard	N 36 29/03/93 \$88,872	STOBIE 93-NL-188	
ENVIRONMENTAL GENOME ANALYSIS: POLYMERASE CHAIN REACTION FINGERPRI NTING ON IN SITU EXTRACTED BACTERIAL MESSENGER RNA FROM CONTAMIN.. Univ of Tennessee	Fleming James	N 36 30/03/93 \$449,676	KOZUMBO 93-NL-189	

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ASERT-92/EFFICIENT EXPLICIT INTEGRATION SCHEMES FOR THE HYPERBOLIZED NAVIER-STOKES EQUATIONS Univ of Michigan	Joe	N 36 04/01/93 \$113,966	A JACOBS 93-NM-093	\$113,966 01/07/93 \$113,966
ASERT-92/M.C. MACHINING OF CYCLIDE SURFACES Univ of Michigan	Outta	N 36 04/01/93 \$130,829	A GLASSMAN 93-NM-095	\$130,829 01/09/93 \$130,829
ASERT-92/LPI SIGNAL DETECTION USING THE WAVELET TRANSFORM University of Kansas	Prescott	N 36 04/01/93 \$114,414	A SJOGREN 93-NM-099	\$114,414 01/07/93 \$114,414
ASERT - 92/OPTIMIZATION TECHNIQUES FOR EFFICIENT BALLISTIC TRAJECTORY ESTIMATION Univ of Connecticut	Yakov	N 36 05/01/93 \$112,481	A GLASSMAN 93-NM-100	\$112,481 01/09/93 \$112,481
ASERT-92/APPLICATIONS OF DYNAMIC CONSTRAINT NETWORKS Univ of California, Los Angeles	Pearl	N 36 05/01/93 \$70,366	A WAKSMAN 93-NM-104	\$70,366 01/07/93 \$70,366
ASERT-92/FACILITATORS AND MEDIATORS FOR INTELLIGENT AGENT PROTOCOLS Univ of Maryland, Baltimore County	Timothy	N 36 05/01/93 \$62,749	A WAKSMAN 93-NM-105	\$62,749 01/07/93 \$62,749
ASERT-92/LEARNING MANEUVERS USING NEURAL NETWORK MODELS Massachusetts Institute of Technology	Christopher	N 36 05/01/93 \$136,863	SUDDARTH 93-NM-107	
ASERT-92/INTERACTIVE COMPUTER-AIDED CONTROL SYSTEM DESIGN Stanford University	Stephen	N 36 05/01/93 \$131,063	A JACOBS 93-NM-115	\$131,063 01/07/93 \$131,063
ASERT-92/VARIATIONAL PRINCIPLES AND STABILITY IN HAMILTONIAN SYSTEMS Univ of Maryland	John	N 36 05/01/93 \$106,892	A NACHMAN 93-NM-116	\$106,892 01/06/93 \$106,892

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ASERT-92/PUN-TIME ASSURANCE FOR DISTRIBUTED COMPUTING SYSTEMS Univ of Missouri	McMillin Bruce	N 36 05/01/93 \$153,757	SUDDARTH 93-NM-121	
ASERT-92/SUPPORT FOR GRADUATE TRAINING IN COMPUTATIONAL NONLINEAR DYNAMICS OF HAMILTONIAN & DISSIPATIVE SYSTEMS Stanford University	Siva	N 36 05/01/93 \$224,015	A JACOBS 93-NM-123	\$224,015 01/07/93 \$224,015
COMPUTATIONAL CONTROL: A UNIFIED STATE SPACE APPROACH Purdue University	Skolton R.	N 36 07/01/93 \$394,281	JACOBS 93-NM-129	
ROBUST CONTROL OF DISTRIBUTED PARAMETER SYSTEMS Texas A and M Research Foundation	Fabiano Richard	N 36 07/01/93 \$60,574	JACOBS 93-NM-130	
LIKELIHOOD BASED ROBUST BAYESIAN ANALYSIS Univ of Cincinnati	Sivaganesan Siva	N 12 07/01/93 \$46,559	SJOGREN 93-NM-131	
SOFTWARE RELIABILITY: STOCHASTIC MODELING OF SOFTWARE FAILURES Massachusetts Institute of Technology	Kaufman Gordon	N 24 07/01/93 \$82,344	SJOGREN 93-NM-132	
A STRUCTURED NEURAL NETWORK MODEL FOR INTEGRATED RULE-BASED AND SIMILARITY-BASED REASONING University of Alabama	Sun Pan	N 36 07/01/93 \$241,768	SUDDARTH 93-NM-133	
INTRODUCING QUASI-NEWTON METHODS INTO NONSMOOTH OPTIMIZATION Washington State University	Hofflin Robert	N 24 07/01/93 \$132,689	GLASSMAN 93-NM-134	
AUTOMATIC ABSTRACTION & FORMULATION OF TASK REPRESENTATION Oklahoma State University	Benjamin O. Paul	N 36 07/01/93 \$265,983	WAKSMAN 93-NM-135	

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APPLICATION OF AN APPROXIMATION SCHEME TO THE THEORETICAL STUDY OF A GENERIC COMBUSTION PROBLEM Indy of Indiana	Chen. Chao-Nien	N 36 07/01/93 \$104,192	NACHMAN 93-NM-136	
NONLINEAR INTERACTIONS OF FLUID VORTEX STRUCTURES WITH BLUFF BODIES Indy of California, San Diego	Kadtk. James	N 24 08/01/93 \$116,200	JACOBS 93-NM-137	
A SUMMER SCHOOL IN BAYESIAN MODELLING Oregon State University	D'Ambrosio Bruce	N 12 08/01/93 \$30,000	MAKSHAN 93-NM-138	
REFLECTION AND TRANSMISSION COEFFICIENTS AND ASYMPTOTICS BEYOND ALL ORDERS West Virginia Univ. Research Corporation	Singold Harry	N 36 08/01/93 \$139,060	NACHMAN 93-NM-139	
DISPERSION OF NOVEL DIELECTRICS INCLUDING BIOLOGICAL-LIKE MATERIALS Indy of Missouri	DeFacio Brian	N 36 08/01/93 \$287,063	NACHMAN 93-NM-140	
NEW ALGORITHMS FOR CONVEX QUADRATIC PROGRAMS AND DATA SMOOTHING MODELS Old Dominion University	Lu Yu	N 24 08/01/93 \$35,120	GLASSMAN 93-NM-141	
ESTIMATION & MODEL CHECKING METHODS BASED ON CENSORED & TRUNCATED DATA Pennsylvania State University	Levitas Michael	N 36 08/01/93 \$123,161	SJOGREN 93-NM-142	
STUDIES IN BRANCHING PROCESSES AND Gibbs SAMPLING Iowa State Univ of Science and Tech	Athreya K.	N 36 08/01/93 \$282,358	SJOGREN 93-NM-143	
FLOW CONTROL FOR HIGH-SPEED NETWORKS Indy of Wisconsin	Agrawal Rajeev	N 36 08/01/93 \$171,990	SJOGREN 93-NM-144	

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PROPOSAL FOR AN INTERNATIONAL CONFERENCE ON MATHEMATICAL ADVANCES IN CONTINUUM MECHANICS Univ of California, Berkeley	Concus	N 12 08/01/93 \$44,772	NACHMAN 93-NM-145	
DESIGN AND ANALYSIS OF MULTISTAGE PREDICTIVE CODING AND APPLICATIONS Oregon State University	Geo-In	N 36 08/01/93 \$500,000	SJOGREN 93-NM-146	
A STUDY OF WEAK SOLUTIONS FOR THE EULER EQUATIONS AND RELATED EQUATIONS FROM PLASMA PHYSICS Ohio State University	Wajda	N 36 08/01/93 \$91,020	NACHMAN 93-NM-147	
FORMATION IN A NONLINEAR MEDIUM: A GEOMETRICAL OPTICS APPROACH ELECTROMAGNETIC PULSE PROPAGATION AND SHOCK Univ of California, Berkeley	Morse	N 36 08/01/93 \$147,592	NACHMAN 93-NM-148	
ANALYTICAL/NUMERICAL INVESTIGATION OF COMBUSTION DYNAMICS Northeastern University	Matkowsky	N 36 08/01/93 \$515,792	NACHMAN 93-NM-149	
ADAPTIVE AND NEURAL CONTROL OF MANEUVERING VEHICLES IN A STOCHASTIC ENVIRONMENT Virginia Polytechnic Inst & State Univ	Yoose	N 12 08/01/93 \$60,158	JACOBS 93-NM-150	
FEATURE EXTRACTION BY REST-BASIS WAVELET METHODS Washington University	Hicknerhauser	N 12 11/01/93 \$50,000	A SJOGREN 93-NM-151	\$50,000 15/03/93 \$50,000
WAVELETS SIGNAL PROCESSING & MATRIX COMPUTATION Air Force Institute of Technology	Suter	N 12 11/01/93 \$25,000	A SJOGREN 93-NM-152	\$25,000 15/11/92 \$25,000
THEORY & NUMERICAL METHODS FOR PROBLEMS IN SHAPE RECONSTRUCTION & LARGE DEVIATIONS Brown University	Quodis	N 12 19/01/93 \$14,000	A JACOBS 93-NM-153	\$14,000 01/06/93 \$14,000

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PROPOSAL FOR THE CONFERENCE ON OPERATOR THEORY, WAVELET THEORY & CONTROL THEORY Univ of North Carolina	Dal	N 06 19/01/93 \$8,140	A SJOGREN 93-NM-154	\$8,140 01/04/93 \$8,140
CORE SUPPORT FOR THE BOARD ON MATHEMATICAL SCIENCES	Lavery	N 12 19/01/93 \$47,570	A GLASSMAN 93-NM-155	\$47,570 01/02/93 \$47,570
National Academy of Sciences	John			
COMPUTER SCIENCE AND TELECOMMUNICATIONS BOARD		N 08 21/01/93 \$25,000	A HOLLAND 93-NM-156	\$25,000 01/02/93 \$25,000
National Academy of Sciences	Blumenthal			
WORKSHOP ON: DIFFUSION APPROXIMATIONS IN COMMUNICATION & STOCHASTIC SYSTEMS THEORY Brown University	Dudis	N 12 21/01/93 \$13,170	A JACOBS 93-NM-157	\$13,170 01/06/93 \$13,170
(S8IR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEMS	Mehra	N 06 25/01/93 \$25,995	JACOBS 93-NM-158	
Scientific Systems Co	R.			
(S8IR93-01) SYNTHETIC IDENTIFICATION FOR SELF DESIGNING FLIGHT CONTROL SYSTEM Mission Research Corp	Caughlin, Jr.	N 12 25/01/93 \$49,512	JACOBS 93-NM-159	
(S8IR93-01) RECONFIGURABLE AUTOPILOT DESIGN USING FEEDBACK LINEARIZATION Integrated Systems, Inc.	Koszt	N 06 25/01/93 \$74,778	JACOBS 93-NM-160	
(S8IR93-01) SELF DESIGNING-FLIGHT CONTROL SYSTEMS	Wise	N 06 25/01/93 \$94,042	JACOBS 93-NM-161	
Michigan Molecular Institute	William			
(S8IR93-01) A NEURAL EXPERT APPROACH TO SELF DESIGNING FLIGHT CONTROL SYSTEMS Charles River Analytics Inc	Alper	N 06 25/01/93 \$74,999	A JACOBS 93-NM-162	\$74,999 15/07/93 \$74,999

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(SBIR93-01) SELF-DESIGNING FLIGHT CONTROL SYSTEM USING FUZZY RULES TO REPRESENT HUMAN REASONING Technology International, Inc	Subri Maba	N 06 25/01/93 \$49,396	JACOBS 93-NM-163	
(SBIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEM	Jarron	N 06 27/01/93 \$67,355	A JACOBS 93-NM-164	\$67,355 15/07/93 \$67,355
(SBIR93-01) AN ADAPTIVE, ROBUST SELF-DESIGNING FLIGHT CONTROL SYSTEM Navsys Corporation	Diggelen Frank van	N 06 27/01/93 \$50,000	JACOBS 93-NM-165	
(SBIR93-01) NEURAL NETWORK AIRCRAFT ENGINE CONTROL SYSTEM	Asato Shanie J.	N 06 27/01/93 \$60,000	JACOBS 93-NM-166	
(SBIR93-01) SELF-ADAPTING FUZZY LOGIC CONTROL FOR HIGH PERFORMANCE	Christian Paul	N 06 27/01/93 \$99,969	JACOBS 93-NM-167	
(SBIR93-01) SOFTWARE TOOLKIT FOR DESIGNING FLIGHT CONTROL	Lin Ching-Fang	N 06 27/01/93 \$50,000	JACOBS 93-NM-168	
(SBIR93-01) PROPOSAL FOR AN INNOVATIVE SELF DESIGNING CONTROLLER CONCEPT IN A MODERN CONTROL DESIGN FRAMEWORK Currie Engineering Consultants (CEC)	Currie Malcole	N 06 27/01/93 \$84,893	JACOBS 93-NM-170	
(SBIR93-01) A MULTI-MODE INTERACTIVE TASK-SHARING EXPERT-INSTRUCTION (MITE) INTELLIGENT TUTORING SYSTEM CSI, INC	Day John	N 06 27/01/93 \$49,897	JACOBS 93-NM-171	
(SBIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT Optimal Synthesis	Monon P.	N 06 27/01/93 \$49,973	JACOBS 93-NM-172	

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(SBIR93-01) SELF-DESIGNING CONTROLLERS USING REAL-TIME EMBEDDED TASK MANAGER WITH INTEGRATED EXPERT SYSTEM Virtual Machine Intelligence, Inc	Biranghaa	N 06 27/01/93 \$49,715	JACOBS 93-NM-173	
(SBIR93-01) SELF DESIGNING FLIGHT CONTROL FEASIBILITY INVESTIGATION The Core Group, Inc	McIntire	N 06 27/01/93 \$59,443	JACOBS 93-NM-174	
(SBIR93-01) DAMAGE TOLERANT SELF ADAPTIVE CONTROL SYSTEM Prux Engineering, Inc	Vanags	N 06 27/01/93 \$50,000	JACOBS 93-NM-175	
(SBIR93-01) GENETICALLY-EVOLVED DIGITAL NETWORKS FOR FLIGHT CONTROL SYSTEMS Seidcon, Inc	Jaworski	N 06 27/01/93 \$49,976	JACOBS 93-NM-176	
(SBIR93-01) AUTOMATED GAIN SCHEDULED CONTROLLER DESIGN Aurora Flight Science, Corp	Vos	N 06 27/01/93 \$50,000	JACOBS 93-NM-177	
(SBIR93-01) MODERN ADAPTIVE FLIGHT CONTROL SYSTEMS Advanced Systems Laboratory	Bayard	N 06 27/01/93 \$49,729	JACOBS 93-NM-178	
(SBIR93-01) SELF DESIGNING CONTROL SYSTEMS USING POLYNOMIAL AND RATIONAL MATRIX INTERPOLATION THEORY Collins Research Corp	Hill	N 06 27/01/93 \$49,929	JACOBS 93-NM-179	
(SBIR93-01) INTELLIGENT BLENDING OF CLASSICAL & MODERN TECHNIQUES INTO AN FDR FOR SELF-ADAPTING FLIGHT CONTROL Tek Associates	Kerr	N 06 27/01/93 \$81,453	JACOBS 93-NM-180	
(SBIR93-01) SELF-DESIGNING FLIGHT CONTROL SYSTEMS GRINCON Corporation	Lobbie	N 06 27/01/93 \$49,971	JACOBS 93-NM-181	

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NEW TOOLS FOR MOLECULAR STRUCTURE DETERMINATION: GLOBAL OPTIMIZATION & IDENTIFICATION OF CRITICAL VARIABLES Princeton University	Rabitz Herschel	N 36 28/01/93 \$737,612	GLASSMAN 93-NM-182	
OPTIMIZATION TOOLS FOR ENGINEERING & DESIGN OF BIOPOLYMERS	Sahinidis Nikolaos	N 36 28/01/93 \$915,754	GLASSMAN 93-NM-183	
NEURAL NETWORKS AS A PREDICTIVE TOOL FOR CONSTRAINED OPTIMIZATION PROTEIN FOLDING Lawrence Berkeley Laboratory	Head-Gordon Teresa	N 36 28/01/93 \$253,551	GLASSMAN 93-NM-184	
MODELING & VISUALIZATION OF POLYMERS, SURFACES & BIOMOLECULES	Bajaj Chandrajit	N 36 28/01/93 \$397,675	GLASSMAN 93-NM-185	
A POST-DOCTORAL RESEARCH ASSOCIATE IN OPTIMIZATION FOR MOLECULAR CHEMISTRY PROBLEMS Univ of Colorado	Schnabel Robert	N 36 29/01/93 \$193,060	GLASSMAN 93-NM-186	
SEMANTIC THEORIES AND AUTOMATED TOOLS FOR REAL-TIME AND PROBABILISTIC CONCURRENT SYSTEMS State University of New York	Saolka Scott	N 36 29/01/93 \$168,133	A SUDDARTH 93-NM-187	\$52,014 01/05/93 \$168,133
A WAVELET APPROACH TO AUTOMATIC TARGET DETECTION AND RECOGNITION Sproethens, Inc.	Byrnes James	N 07 01/02/93 \$16,549	SJOGREN 93-NM-188	
COLLINEAR SCALINGS & CONIC APPROXIMATIONS IN ALGORITHMS FOR OPTIMIZATION Washington State University	Ariyavansa K.	N 36 01/02/93 \$371,434	GLASSMAN 93-NM-189	
THE NONLINEAR LEAST SQUARES ESTIMATE OF A ROTATION MATRIX State University of New York	YJ Olgun	N 24 02/02/93 \$64,705	SJOGREN 93-NM-190	

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IMPROVED ALGORITHMS & EXPLOITATION OF STRUCTURE FOR OPTIMAL ATOMIC & MOLECULAR CLUSTERING Univ of Colorado	Slover	N 36 04/02/93 \$193,035	GLASSMAN 93-NM-191	
COMBINATORIAL OPTIMIZATION FOR MOLECULAR SYSTEMS				
Purdue University	Percny	N 36 04/02/93 \$667,504	GLASSMAN 93-NM-192	
(SDIR93-01) SELF DESIGNING FLIGHT CONTROL SYSTEM THROUGH MULTILEVEL COORDINATION Monsiwell, Inc	Ria	N 06 05/02/93 \$50,000	JACOBS 93-NM-193	
EFFECTIVE ENERGY METHODS FOR GLOBAL OPTIMIZATION FOR BIOPOLYMER STRUCTURE PREDICTION Cornell University	Shalloway	N 36 08/02/93 \$337,632	GLASSMAN 93-NM-194	
HIGH PERFORMANCE GLOBAL OPTIMIZATION FOR COMPUTING THE STRUCTURE OF LARGE MOLECULES Univ of Minnesota	Rosen	N 36 08/02/93 \$419,600	GLASSMAN 93-NM-195	
INVESTIGATIONS IN LINEAR AND INTEGER PROGRAMMING				
Rice University	Alkdy	N 24 10/02/93 \$108,372	GLASSMAN 93-NM-196	
STRUCTURE & STABILITY OF REACTING COMPRESSIBLE FREE SHEAR LAYERS				
Old Dominion University	Grosch	R 24 10/02/93 \$40,365	JACOBS 93-NM-198	
PATTERN THEORY				
Aright Ltd	Ross	N 12 10/02/93 \$90,000	SUDDARTH 93-NM-199	
PARALLEL DECOMPOSITIONS FOR NETWORK-STRUCTURED PROBLEMS				
Univ of Pennsylvania	Zenios	R 12 10/02/93 \$56,696	GLASSMAN 93-NM-200	

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ROBUST ANALYSIS & DESIGN OF MULTIVARIABLE FEEDBACK SYSTEMS Univ of Minnesota	Tannenbaum Allen	N 36 10/02/93 \$310,653	JACOBS 93-NM-201	
TOPICS IN STOCHASTICS, SYMBOLIC DYNAMICS AND NEURAL NETWORKS Oregon State University	Burton, Jr. Robert	N 36 10/02/93 \$109,027	A SJOGREN 93-NM-202	\$33,949 01/06/93 \$109,027
STATISTICAL ASPECTS OF RELIABILITY, MAINTAINABILITY & AVAILABILITY Florida State University	Hollander Myles	N 36 22/02/93 \$102,369	SJOGREN 93-NM-203	
COMPUTING SCIENCE & STATISTICS: SYMPOSIUM ON THE INTERFACE Interface Foundation of North America	Tarter Michael	N 12 22/02/93 \$38,610	SJOGREN 93-NM-204	
APPLICATION OF A NEW TECHNIQUE FOR ANALYZING 3-DIMENSIONAL ARRAY ANTENNAS Univ of California, Davis	Branner George	N 12 22/02/93 \$112,920	NACHMAN 93-NM-205	
DEVELOPMENT OF AN ADVANCED IMPLICIT ALGORITHM FOR MHD COMPUTATIONS OF PARALLEL SUPERCOMPUTERS Univ of Washington	Eberhardt Scott	N 12 22/02/93 \$8,895	JACOBS 93-NM-206	
A NEW APPROACH TO RADAR WAVEFORM DESIGN City Univ of New York Graduate School	Auslander Louis	N 36 22/02/93 \$645,434	NACHMAN 93-NM-207	
ROBUST CONTROLLER DESIGN FOR NONLINEAR & PARAMETER DEPENDENT SYSTEMS Drexel University	Chang Mor-Chin	N 36 22/02/93 \$212,750	JACOBS 93-NM-208	
STATISTICAL MECHANICS OF WATER & AQUEOUS BIOLOGICAL SOLUTIONS Univ of Missouri	DeFacio Brian	N 36 22/02/93 \$236,772	NACHMAN 93-NM-209	

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EXPLOITING CHAOS IN OVERSAMPLED A/D CONVERTERS Univ of California, Berkeley	Zakhor	N 12 25/02/93 \$280,500	A SJOGREN 93-NM-210	\$40,000 01/07/93 \$40,000
PARTICLE -IN-CELL ELECTROMAGNETIC CODES IN COMPLEX GEOMETRIES Univ of Alaska	Swift	N 36 02/03/93 \$440,612	JACOBS 93-NM-211	
ROBUST CONTROL OF SYSTEMS WITH PARASITIC UNCERTAINTY Univ of Wisconsin	Coba	N 36 02/03/93 \$270,440	JACOBS 93-NM-212	
DOMAIN DECOMPOSITION AND PARALLEL COMPUTATION FOR INCOMPRESSIBLE =LOW Univ of Wisconsin	Strikwerda	N 36 02/03/93 \$200,924	JACOBS 93-NM-213	
USING GENETIC ALGORITHMS TO SOLVE OPTIMIZATION PROBLEMS ARISING IN CONTROLLER DESIGN Univ of California, Irvine	Schaitendorf	N 24 02/03/93 \$126,547	JACOBS 93-NM-214	
ROBUSTNESS ISSUES IN RECONFIGURABLE CONTROL SYSTEMS State University of New York	Mu	N 24 02/03/93 \$165,252	JACOBS 93-NM-215	
PARALLEL OBJECT RECOGNITION BY ENERGY MINIMIZATION State University of New York	Jasrabadi	N 36 02/03/93 \$230,324	JACOBS 93-NM-216	
PROBLEMS IN SPATIAL STATISTICS, MULTIDIMENSIONAL DATA ANALYSIS AND RELIABILITY MODELS Univ of California, Davis	Wang	R 36 02/03/93 \$204,004	SJOGREN 93-NM-217	
DECONVOLUTION, SHANNON SAMPLING, WAVELETS, AND SPLINES WITH APPLICATIONS TO SIGNAL AND IMAGE PROCESSING Univ of Maryland	Borenstein	N 24 02/03/93 \$190,185	SJOGREN 93-NM-218	

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SIGNAL DETECTION, ESTIMATION, AND SOURCE CODING IN THE IMPERFECTLY KNOWN DEPENDENT NONSTATIONARY ENVIRONMENT Texas A and M Research Foundation	Halverson	R 24 02/03/93 \$85,253	SJOGREN 93-NM-219	
CONSTRUCTING TIGHT POLYHEDRAL REPRESENTATIONS FOR NONCONVEX PROBLEMS ARISING IN PRODUCTION/DISTRIBUTION/DESIGN APPLICATIONS Clemson University	Adams	N 36 11/03/93 \$243,774	GLASSMAN 93-NM-220	
COMPUTATION, CONTROL & OPTIMIZATION PROBLEMS IN STRUCTURAL MECHANICS & FLUID DYNAMICS Texas A and M Research Foundation	Chen	N 36 12/03/93 \$313,703	JACOBS 93-NM-221	
CAASERT93) ANALYSIS AND CONTROL OF FLOW INSTABILITIES IN AXIAL COMPRESSORS Univ of Maryland	Adenatis	N 36 23/03/93 \$95,420	JACOBS 93-NM-222	
CAASERT93) IMPROVED ASSESSMENT OF SOFTWARE RELIABILITY George Washington University	Singpurwalla	N 36 23/03/93 \$111,511	SJOGREN 93-NM-223	
CAASERT93) BUILDING AND USING LARGE, MULTIPURPOSE KNOWLEDGE BASES Univ of Texas	Porter	N 36 23/03/93 \$180,583	WAKSMAN 93-NM-224	
CAASERT93) CLUSTERING, COMPRESSION AND CLASSIFICATION OF UHRR DATA Univ State University	Analt	N 36 23/03/93 \$93,028	SJOGREN 93-NM-225	
CAASERT93) AUGMENTATION OF RESEARCH IN ELECTROMAGNETICS Northeastern University	Silevitch	N 36 23/03/93 \$99,560	NACHMAN 93-NM-226	
CAASERT93) A NEW MULTI-DIMENSIONAL TRANSFORM FOR DIGITAL SIGNAL PROCESSING USING GENERALIZED ASSOCIATION SCHEMES Univ of Nebraska	Shattacharya	N 36 23/03/93 \$59,102	SJOGREN 93-NM-227	

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CAASERT93) WAVELETS AND SPLINES IN NUMERICAL ANALYSIS AND IMAGE COMPRESSION Howard University	Samuel Louise	N 36 23/03/93 \$232,700	JACOBS 93-NM-228	
CAASERT93) MODELING OF VISCOELASTIC JETS & FIBERS: INVERSE PROBLEMS FOR MATERIAL CHARACTERIZATION Ohio State Univ Research Foundation	Forest M. Gregory	N 36 23/03/93 \$142,344	NACHMAN 93-NM-229	
CAASERT93) A CASE-BASED REASONING MODEL-BASED VISION SYSTEM FOR IIR Carnegie-Mellon University	Sycara Katie	N 36 23/03/93 \$338,910	WAKSMAN 93-NM-230	
CAASERT93) A SIGNAL RE-PROCESSING ARCHITECTURE FOR KNOWLEDGE BASED SIGNAL PROCESSING Syracuse Univ - Dept Elec & Computer Eng	Weiner Donald	N 36 23/03/93 \$154,613	SJOGREN 93-NM-231	
CAASERT93) RECURSIVE HEURISTIC CLASSIFICATION Univ of Illinois	Wilkins David	N 36 23/03/93 \$256,129	WAKSMAN 93-NM-232	
CAASERT93) COMPUTATIONAL PROBLEMS IN AERODYNAMICS Rensselaer Polytechnic Institute	Cola Julian	N 36 23/03/93 \$150,278	NACHMAN 93-NM-233	
CAASERT93) ADAPTIVE OR ON-LINE IDENTIFICATION OF DISTRIBUTED PARAMETER SYSTEMS Univ of Southern California	Posen I. Gary	N 36 23/03/93 \$82,778	JACOBS 93-NM-234	
CAASERT93) ISSUES IN SCALING UP MACHINE LEARNING Univ of California, Irvine	Pazzani Michael	N 36 24/03/93 \$267,236	WAKSMAN 93-NM-235	
CAASERT93) THE MODELING OF HIGH-SPEED NONLINEAR OPTICAL COMMUNICATIONS Northwestern University	Kahn William	N 36 24/03/93 \$136,312	NACHMAN 93-NM-236	

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ASERT93/ SEMANTIC THEORIES AND AUTOMATED TOOLS FOR REAL-TIME AND PROBABILISTIC CONCURRENT SYSTEMS JOHN HOPKINS UNIVERSITY	ZARICO	N 36 24/03/93 \$175,276	SUDDARTH 93-NM-237	
ASERT93/ NEW SPEECH PROCESSING APPROACHES Univ of Rhode Island	Kumarasan	N 36 24/03/93 \$145,015	SJOGREN 93-NM-238	
ASERT93/ THEORY AND PRACTICE OF DATA FUSION SYRACUSE UNIVERSITY	Varshney	N 36 24/03/93 \$137,087	SJOGREN 93-NM-239	
ASERT93/DYNAMICAL SYSTEMS, NEURAL NETWORKS AND CURTICAL MODELS Univ of California, Berkeley	Hirsch	N 36 24/03/93 \$69,879	SUDDARTH 93-NM-240	
ASERT93/ DIFFUSION METHODS FOR GLOBAL OPTIMIZATION Univ of Wisconsin	Robinson	N 36 24/03/93 \$118,246	GLASSMAN 93-NM-241	
ASERT93/ ROBUST CONTROL METHODS - ASERT SUPPLEMENT Univ of Southern California	Safonov	N 36 24/03/93 \$201,658	JACOBS 93-NM-242	
ASERT93/ ADAPTIVE RECONFIGURATION ALGORITHMS FOR REAL-TIME DISTRIBUTED SYSTEMS Univ of Massachusetts	June	N 36 24/03/93 \$150,556	SUDDARTH 93-NM-243	
ASERT93/ CONCURRENCY AND RECOVERABILITY OF RULE-EXECUTION IN ACTIVE DATABASES Univ of Illinois	Volfson	N 36 24/03/93 \$143,342	SUDDARTH 93-NM-244	
ASERT93/ VORTEX CORE DYNAMICS COMPLEX HELICAL WAVE DECOMPOSITION PROGRAM OF FINE-SCALE TURBULENCE & OTHER RELATED THEORETICAL STUDIES Univ of Houston	Fazle	N 36 24/03/93 \$110,269	NACHMAN 93-NM-245	

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IASERT93/ENHANCEMENTS TO THE KNOWLEDGE BASE TRANSLATOR SHELL Univ of Wyoming	Van Baelen Jaffre	N 36 24/03/93 \$106,403	WAKSMAN 93-NM-246	
IASERT93/ ROBUST CONTROL THEORY AND APPLICATIONS California Institute of Technology	Doyle John	N 36 24/03/93 \$213,777	JACOBS 93-NM-247	
IASERT93 DOCTIPAL RESEARCH IN SYSTEMS SCIENCE AND MATHEMATICS Washington University	Byrnes Christopher	N 36 24/03/93 \$223,974	JACOBS 93-NM-248	
IASERT93/EFFICIENT ALGORITHMS & DATA STRUCTURES IN GEOMETRIC DESIGN Purdue University	Tafaj Chandrajit	N 36 24/03/93 \$166,258	GLASSMAN 93-NM-249	
IASERT93/ RAPID LEARNING-BASED MEMORY-DRIVEN FIXURING DESIGN AND ASSEMBLY PLANNING SYSTEMS Bright State University	Chen C. L. Phillip	N 36 24/03/93 \$86,095	GLASSMAN 93-NM-250	
IASERT93/ SOLVING FIXED-CHARGE NETWORK FLOW PROBLEMS VIA REFORMULATION STRATEGIES Clemson University	Adams Warren	N 36 24/03/93 \$86,712	GLASSMAN 93-NM-251	
IASERT93/ REAL-TIME CONTROL OF REASONING Univ of Oregon	Sinsberg Yathea	N 36 24/03/93 \$193,063	WAKSMAN 93-NM-252	
IASERT93/ HIGHERORDER ACCURACY COMPUTATIONAL METHODS IN AERODYNAMICS USING PARALLEL ARCHITECTURES Iowa University	Gottlieb David	N 36 24/03/93 \$214,402	JACOBS 93-NM-253	
IASERT93/ DATA COMPRESSION FOR MASSIVELY PARALLEL PROCESSORS Univ of California, Irvine	Scherison Isaac	N 36 24/03/93 \$119,639	SUDDARTH 93-NM-254	

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IASERT93/ MODEL-BASED SEARCH Univ of Maryland	Rosenfeld Ariel	N 36 24/03/93 \$100,022	SJOGREN 93-NM-255	
IASERT93/ LOCALIZATION PHENOMENON IN DISORDERED DIELECTRICS Univ of North Carolina	Figotin Alexander	N 36 24/03/93 \$148,324	NACHMAN 93-NM-256	
IASERT93/ EXPLORATORY RESEARCH FOR NEXT GENERATION RADAR SYSTEMS: REAL-TIME HIGH-RESOLUTION PARAMETRIC SPATIO-TEMPORAL SIGNAL PROCES Purdue Research Foundation	Polowski Michael	N 36 24/03/93 \$16,205	SJOGREN 93-NM-258	
IASERT93/ COMPUTATIONAL TOOLS FOR DISTRIBUTED PARAMETER SYSTEMS Univ of California, Santa Barbara	Lau Alan	N 36 24/03/93 \$114,686	JACOBS 93-NM-259	
IASERT93/ VOID NUCLEATION AND GROWTH IN NONLINEAR SOLIDS Univ of Virginia	Morgan Cornelius	N 36 24/03/93 \$121,801	NACHMAN 93-NM-260	
IASERT93/ DOCTORAL RESEARCH IN SYSTEMS SCIENCE AND MATHEMATICS Washington University	Katz I. Norman	N 36 24/03/93 \$370,797	JACOBS 93-NM-261	
IASERT93/ LOCATION AND SCHEDULING PROBLEMS FOR NETWORKS Purdue, The State University	Roberts Ted	N 36 24/03/93 \$123,663	GLASSMAN 93-NM-262	
IASERT93/ ROBUSTNESS OF WAVELET-BASED SPREAD SPECTRUM Arizona State University	Cochran Douglas	N 36 24/03/93 \$92,479	SJOGREN 93-NM-263	
IASERT93/ NONLINEAR WAVES, OPTICAL SOLITON PROPAGATION AND COMPUTATION Univ of Colorado	Polowitz Mark	N 36 24/03/93 \$132,742	NACHMAN 93-NM-264	

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IASERT93/ EFFICIENT MANAGEMENT OF LARGE-SCALE GEOMETRIC DATA Duke University	Vitter	N 36 24/03/93 \$292,651	SUDDARTH 93-NM-265	
IASERT93/ INFERENCE AND MODELLING FOR REPAIRABLE SYSTEMS AND SOFTWARE RELIABILITY Univ of Missouri	Yasu	N 36 24/03/93 \$70,789	SJOGREN 93-NM-266	
IASERT93/ HOMOTOPY ALGORITHMS FOR CONTROL SYSTEMS AND NONLINEAR PROGRAMMING Virginia Polytechnic Inst & State Univ	Watson	N 36 24/03/93 \$114,707	JACOBS 93-NM-267	
IASERT93/ NUMERICAL MODELLING OF CRYSTAL GROWTH Univ of California, Berkeley	Strain	N 36 24/03/93 \$195,330	JACOBS 93-NM-268	
IASERT93/ DATA FUSION USING FUZZY MORPHOLOGY NETWORKS FOR TARGET CLASSIFICATION Coea State University	Davidson	N 36 24/03/93 \$73,653	SUDDARTH 93-NM-269	
IASERT93/ FEEDBACK CONTROL OF NONLINEAR SYSTEMS Univ of Michigan	Tarnstein	N 36 24/03/93 \$414,669	JACOBS 93-NM-271	
IASERT93/ GRADUATE STUDIES IN OPTIMIZING AIR TRANSPORT SCHEDULING AND ROUTING Washington University	Erwin	N 36 24/03/93 \$261,180	GLASSMAN 93-NM-272	
IASERT93/ RESEARCH IN NONLINEAR DYNAMICAL SYSTEMS Cornell University	Yolaes	N 36 24/03/93 \$233,373	NACHMAN 93-NM-273	
IASERT93/ SUPPORT FOR STUDENT SUPPORT IN COMPUTATIONAL MATHEMATICS Virginia Polytechnic Inst & State Univ	Sanzburger	N 36 24/03/93 \$139,524	JACOBS 93-NM-274	

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AASERT93/ MATHEMATICAL MODELS OF NONLINEAR MECHANICAL AND ELECTRICAL SYSTEMS Pennsylvania Polytechnic Institute	Levi	N 36 24/03/93 \$234,776	NACHMAN 93-NM-275	
AASERT93/ PARAMETRIC MODELING FOR RADAR TARGET IDENTIFICATION Ohio State Univ Research Foundation	Vosges	N 36 24/03/93 \$93,028	SJOGREN 93-NM-276	
AASERT93/ INTEGRATION OF FINITE ELEMENT AND RAY METHODS FOR JET ENGINE SCATTERING Univ of Michigan	Volakis	N 36 24/03/93 \$114,682	NACHMAN 93-NM-277	
AASERT93/ NONLINEAR PROCESSOR FOR SPREAD SPECTRUM SYSTEMS Illinois Institute of Technology	Ucci	N 36 24/03/93 \$268,940	SJOGREN 93-NM-278	
AASERT93/ SOFTWARE RE-ENGINEERING AND SOFTWARE METRICS Iowa University	Leach	N 36 24/03/93 \$167,405	SUDDARTH 93-NM-279	
AASERT93/ IMPLEMENTING AN ADVANCED AJC FOR SIMULATION EM SCATTERING ON MASSIVELY PARALLEL SUPERCOMPUTERS Northwestern University	Rappaport	N 36 24/03/93 \$190,387	JACOBS 93-NM-280	
AASERT93/ HIGH PRECISION CONTROL OF MANUFACTURING MACHINERY FOR ENHANCEMENT OF PRODUCT QUALITY Pennsylvania State University	Ray	N 36 25/03/93 \$184,161	GLASSMAN 93-NM-281	
AASERT93/ MODAL PROPAGATION ALGORITHM FOR CHARACTERIZING THE ELECTROMAGNETIC SCATTERING FROM LARGE DUCTS Univ of Texas	Lin	N 36 25/03/93 \$100,685	NACHMAN 93-NM-282	
AASERT93/ HETEROGENEOUS DISTRIBUTED OBJECT SYSTEMS Syracuse University	Gray	N 36 25/03/93 \$292,821	SUDDARTH 93-NM-283	

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AAASRT93/DEVELOPMENT OF CONTROL DESIGN METHODOLOGIES FOR NONLINEAR DISTRIBUTED PARAMETER SYSTEMS	Arizona State University	Rodriguez Armando	N 36 29/03/93 \$11,328	JACOBS 93-NM-284	
AAASRT93/REACT: RELIABLE ARCHITECTURE CHARACTERIZATION TOOL	Texas A and M Research Foundation	Pradhan Chiraj	N 36 29/03/93 \$104,778	SUDDARTH 93-NM-285	
AAASRT93/INTERIOR POINT METHODS FOR LINEAR & NONLINEAR OPTIMIZATION	Rutgers, The State University	Shanno David	N 36 29/03/93 \$125,172	GLASSMAN 93-NM-286	